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Mandatory and optional Saudi standard specifications approved in the meeting of the Board of Directors of the Authority No. (187) held on 10/03/1444 AH

Based on Paragraph No. (4) of Article Nine of the Authority's Regulation issued pursuant to a Cabinet Resolution No. 216, dated 06/17/1431 AH, which states that "the Council is the authority competent to manage the affairs of The Authority, managing its affairs, and taking all necessary decisions to achieve its purposes within the limits of the provisions of this regulation, In particular, he has the right to approve the Saudi standards in their final form and the methods of their application.

And based on Paragraph No. (1) of Article Four of the organization's regulation, which states: "publishing specifications Standards that it adopts in the ways it sees fit, and it is not effective until it is announced in the Official Gazette.

Accordingly, the Board of Directors of the Saudi Standards, Measurements and Quality Authority approved in its meeting No. (187) Which was held on 10/3/1444 AH, corresponding to 06/10/2022 AD, approving projects for standard specifications Saudi Arabia and Gulf Standard Specifications as Saudi Standard Specifications (Optional / Mandatory) on As follows:

01-01-05-22-38-TL: (Document No.: First

a) Adoption of (new) Saudi standards as follows:

1) Chemical and petroleum products sector:

Application adjective (optional/mandatory)	The title of the Saudi standard (Arabic / English)	The approved Saudi standard number	M
Optional specification	Standard Test Method for the Bromine Index for Aromatic Hydrocarbons by Electrophoresis Standard Test Method for Bromine Index of Aromatic Hydrocarbons by Electrometric Titration	SASO ASTM D5776: 2022	1
Optional specification	Standard specifications for poly(vinyl chloride) (PVC) and other organic polymeric materials corresponding to the coating of wires used in binding iron fencing. Standard Specification for Poly (Vinyl Chloride) (PVC) and Other Conforming Organic Polymer-Coated Steel Tension Wire Used with Chain-Link Fence	SASO ASTM F1664:2022	2
Optional specification	Additive manufacturing - Manufacture of additives based on the extrusion of plastic materials - Part 1: Raw materials Additive manufacturing - Material extrusion-based additive manufacturing of plastic materials - Part 1: Feedstock materials	SASO ISO ASTM 52903-1:2022	3
Optional specification	Additive manufacturing - Manufacture of additives based on plastic extrusion - Part 2: Process equipment Additive manufacturing - Material extrusion-based additive manufacturing of plastic materials - Part 2: Process equipment	SASO ISO ASTM 52903-2:2022	4
Optional specification	Additive manufacturing of polymers - feedstocks - qualification of materials for laser-powder layer incorporation of parts Additive manufacturing of polymers - Feedstock materials - Qualification of materials for laser - based powder bed fusion of parts	SASO ISO ASTM 52925:2022	5
Optional specification	Standard Test Methods for Measurement of Torque Conservation of Continuous Screw Closing Caps Using Non-automatic (Manual) Torque Test Equipment Standard Test Methods for Measurement of Torque Retention for Packages with Continuous Thread Closures Using Non - Automated (Manual) Torque Testing Equipment	SASO ASTM D2063/D2063M:2022	6
Optional specification	Standard practice for torque meter calibration and use in packaging applications Standard Practice for Calibration and Use of Torque Meters Used in Packaging Applications	2022:D3474 ASTM SASO	7

2) The textile sector:

Application adjective (optional/mandatory)	The title of the Saudi standard (Arabic / English)	The approved Saudi standard number	M
Optional specification	Leather - Chemical determination of chromium oxide content - Part 4: Quantification by inductively coupled plasma (ICP) Leather -Chemical determination of chromic oxide content- Part 4: Quantification by inductively coupled plasma (ICP)	SASO ISO 5398-4:2022	1
Optional specification	Leather - Physical and mechanical test methods for the determination of dirt - Part 1: Friction method (Martindale) Leather -Physical and mechanical test methods for the determination of soiling- Part 1: Rubbing (Martindale) method	SASO ISO 26082-1:2022	2
Optional specification	Shoes - Full shoe test methods - Flexural durability Footwear - Test methods for whole shoe - Flexing durability	SASO ISO 24266:2022	3
Optional specification	Footwear and their components - quantitative challenge test method for assessing antifungal activity Footwear and footwear components - Quantitative challenge test method to assess antifungal activity	SASO ISO 20150:2022	4
Optional specification	Shoes - Potentially hazardous substances in shoes and their components - Determination of nitrosamines Footwear -Critical substances potentially present in footwear and footwear components- Determination of Nitrosamines	SASO ISO 19577:2022	5
Optional specification	Eye and face protection for professional use - Part 1: General requirements Eye and face protection for occupational use - Part 1: General requirements	SASO ISO 16321-1:2022	6
Optional specification	Eye and Face Protection for Professional Use - Part 2: Additional Requirements for Welding Operations and Related Techniques Eye and face protection for occupational use - Part 2: Additional requirements for protectors used during welding and related techniques	SASO ISO 16321-2:2022	7

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Mandatory and optional Saudi standards approved in the meeting of the Board of Directors of the Authority No. (187) Held on 10/03/1444 AH.. Continued

Application adjective (optional/mandatory)	The title of the Saudi standard (Arabic / English)	The approved Saudi standard number	M
Optional specification	Eye and face protection for professional use - Part 3: Additional requirements for face protection Eye and face protection for occupational use - Part 3: Additional requirements for mesh protectors	SASO ISO 16321-3:2022	8
Optional specification	Standard specification for helmets for recreational cycling and skates Standard Specification for Helmets Used in Recreational Bicycling or Roller Skating	2022:F1447 ASTM STANDARD	9
Optional specification	Standard specifications for body protectors used in horse sports and riding Standard Specification for Body Protectors Used in Horse Sports and Horseback Riding	2022:F1937 ASTM SASO	10
Optional specification	Eye and face protection for sports use - Part 1: Alpine and Snowboard Goggles Requirements Eye and face protection for sports use - Part 1: Requirements for downhill skiing and snowboarding goggles	2022: 1-18527 ISO SASO	11

3 (Electrical and electronic products sector:

Application adjective (optional/mandatory)	The title of the Saudi standard (Arabic / English)	The approved Saudi standard number	M
Optional specification	Intelligent Transportation Systems Common Applications Framework for TARV Telecommunications (Part 1: Framework and Architecture) Intelligent transport systems -Framework for collaborative Telematics Applications for Regulated commercial freight Vehicles (TARV)- Part 1: Framework and architecture	SASO ISO 15638-1:2022	1
Optional specification	Intelligent Transportation Systems - Common Applications Framework for the Telecommunications of Regulated Commercial Freight Vehicles (TARV - Part 2: Specifications (Parameters) of the Common Core Operating System Using Access to Communications for Landline Mobile Phones (CALM) Intelligent transport systems -Framework for collaborative Telematics Applications for Regulated commercial freight Vehicles (TARV)- Part 2: Common platform parameters using CALM	SASO ISO 15638-2:2022	2
Optional specification	Intelligent Transportation Systems - Common Applications Framework for the Telecommunications of Regulated Commercial Vehicles (TARV) - Part 3: Operating requirements, "accrediting authority" procedures, and enforcement provisions for regulated service providers Intelligent transport systems -Framework for collaborative telematics applications for regulated commercial freight vehicles (TARV)- Part 3: Operating requirements, 'Approval Authority' procedures, and enforcement provisions for the providers of regulated services	SASO ISO 15638-3:2022	3
Optional specification	Intelligent Transportation Systems - Common Applications Framework for the Telecommunications of Regulated Commercial Shipping Vehicles (TARV - Part 4): System security requirements Intelligent transport systems -Framework for cooperative telematics applications for regulated commercial freight vehicles (TARV)- Part 4: System security requirements	SASO ISO/TS 15638-4:2022	4
Optional specification	Intelligent Transportation Systems - Common Applications Framework for the Telecommunications of Regulated Commercial Freight Vehicles (TARV - Part 5): Vehicle general information Intelligent transport systems -Framework for collaborative Telematics Applications for Regulated commercial freight Vehicles (TARV)- Part 5: Generic vehicle information	SASO ISO 15638-5:2022	5
Optional specification	Intelligent Transportation Systems - Common Applications Framework for the Telecommunications of Regulated Commercial Shipping Vehicles (TARV - Part 6): Regulated applications Intelligent transport systems - Framework for collaborative Telematics Applications for Regulated commercial freight Vehicles (TARV) - Part 6: Regulated applications	SASO ISO 15638-6:2022	6
Optional specification	Intelligent Transportation Systems - Common Applications Framework for the Telecommunications of Regulated Commercial Shipping Vehicles (TARV - Part 7): Other applications Intelligent transport systems - Framework for collaborative Telematics Applications for Regulated commercial freight Vehicles (TARV) - Part 7: Other applications	SASO ISO 15638-7:2022	7
Optional specification	Intelligent Transportation Systems - Common Applications Framework for Telecommunications for Regulated Vehicles (TARV - Part 8: Managing Access to Vehicles) Intelligent transport systems - Framework for cooperative telematics applications for regulated vehicles (TARV) - Part 8: Vehicle access management	SASO ISO 15638-8:2022	8
Optional specification	Intelligent Transportation Systems - Common Applications Framework for the Telecommunications of Regulated Commercial Shipping Vehicles (TARV - Part 9): Remote monitoring of electronic speed recorders Intelligent transport systems - Framework for cooperative telematics applications for regulated commercial freight vehicles (TARV) - Part 9: Remote digital tachograph monitoring	SASO ISO 15638-9:2022	9
Optional specification	Intelligent Transportation Systems - Common Applications Framework for the Telecommunications of Regulated Commercial Shipping Vehicles (TARV - Part 21): Monitoring regulated vehicles using roadside sensors and data collected from the vehicle for enforcement and other purposes Intelligent transport systems - Framework for cooperative telematics applications for regulated commercial freight vehicles (TARV) - Part 21: Monitoring of regulated vehicles using roadside sensors and data collected from the vehicle for enforcement and other purposes	SASO ISO 15638-21:2022	10

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Mandatory and optional Saudi standards approved in the meeting of the Board of Directors of the Authority No. (187) Held on 10/03/1444 AH.. Continued

Application adjective (optional/mandatory)	The title of the Saudi standard (Arabic / English)	The approved Saudi standard number	M
Optional specification	Intelligent Transportation Systems - Common Applications Framework for the Telecommunications of Regulated Commercial Shipping Vehicles (TARV - Part 12): Vehicle mass control Intelligent transport systems - Framework for cooperative telematics applications for regulated vehicles (TARV) - Part 12: Vehicle mass monitoring	SASO ISO 15638-12:2022	11
Optional specification	High-voltage cutting, connecting and control equipment - Part 013-37: Alternator circuit breakers High-voltage switchgear and controlgear - Part 37-013: Alternating current generator circuit-breakers	SASO IEC/IEEE 62271-37-013:2022	12
Optional specification	High voltage cutting, connection and control equipment - Part 301: Dimensional specifications for high voltage terminals High-voltage switchgear and controlgear - Part 301: Dimensional standardisation of high-voltage terminals	SASO IEC TR 62271-301:2022	13
Optional specification	Batteries and secondary cells for storing renewable energy - general requirements and test methods - part 1: off-grid photovoltaic applications Secondary cells and batteries for renewable energy storage - General requirements and methods of test - Part 1: Photovoltaic off-grid application	SASO IEC 61427-1:2022	14
Optional specification	Electrical Energy Storage Systems (EES) - (Part 2.5: Safety requirements for grid-integrated electrical energy storage systems - electrochemical systems - Electrical energy storage (EES) systems - Part 5-2: Safety requirements for grid-integrated EES systems Electrochemical-based systems	SASO IEC 62933-5-2:2022	15
Optional specification	Batteries and secondary cells containing alkaline substances or other non-acidic electrolytes Secondary lithium cells and batteries for portable applications - Part 4: Lithium coin-shaped secondary cells, and batteries made from them Secondary cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications - Part 4: Coin secondary lithium cells, and batteries made from them	SASO IEC 61960-4:2022	16
Optional specification	Batteries and secondary cells containing alkaline substances or other non-acidic electrolytes Secondary cells and batteries of lithium, nickel, cadmium and nickel-metal hydride for mobile applications – guidance on environmental aspects Secondary cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium, nickel cadmium and nickel-metal hydride cells and batteries for portable applications - Guidance on environmental aspects	SASO IEC 63218:2022	17
Optional specification	Recommendations for Renewable Energy and Hybrid Rural Electricity Systems - Part 7: Generators Recommendations for renewable energy and hybrid systems for rural electrification - Part 7: Generators	SASO IEC TS 62257-7:2022	18
Optional specification	Recommendations for Renewable Energy Systems and Rural Hybrid Electricity Systems - Part 4.7: Integration of Solar Energy with Other Forms of Energy Generation within Hybrid Energy Systems - Recommendations for renewable energy and hybrid systems for rural electrification - Part 7-4: Generators Integration of solar with other forms of power generation within hybrid power systems	SASO IEC TS 62257-7-4:2022	19
Optional specification	Safety of transducers for use in photovoltaic systems - Part 3: Special requirements for electronic equipment with PV components Safety of power converters for use in photovoltaic power systems - Part 3: Particular requirements for electronic devices in combination with photovoltaic elements	SASO IEC 62109-3:2022	20
Optional specification	Junction boxes for PV modules - Safety requirements and tests Junction boxes for photovoltaic modules - Safety requirements and tests	SASO IEC 62790:2022	21
Optional specification	Renewable Energy and Rural Hybrid Electricity Systems - Part 8-9: Integrated Systems - Requirements for stand-alone renewable energy products with power ratings less than or equal to 350 watts Renewable energy and hybrid systems for rural electrification - Part 9-8: Integrated systems - Requirements for stand-alone renewable energy products with power ratings less than or equal to 350 W	SASO IEC TS 62257-9-8:2022	22
Optional specification	Pneumatic Line Structures - Loading Tests Overhead line structures - Loading tests	SASO IEC 60652:2022	23
Optional specification	Overhead transmission line design standards Design criteria of overhead transmission lines	SASO IEC 60826:2022	24
Optional specification	Measurement methods and declaration of the detection range of detectors - passive infrared detectors for detecting primary and secondary motion Methods of measurement and declaration of the detection range of detectors - Passive infrared detectors for major and minor motion detection	SASO IEC 63180:2022	25

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Application adjective (optional/mandatory)	The title of the Saudi standard (Arabic / English)	Standard No. Saudi approved	M
Optional specification	Organic Light Emitting Diode (OLED) Light Sources for General Lighting - Safety - Part 2-3: Special Requirements - Flexible OLED panels and chips Organic light emitting diode (OLED) light sources for general lighting - Safety - Part 2-3: Particular requirements - Flexible OLED tiles and panels	SASO IEC 62868-2-3:2022	26
Optional specification	Lighting systems - general requirements Lighting systems - General requirements	SASO IEC TS 63116:2022	27
Optional specification	LED beams - projection of long-term luminous and radiant flux maintenance LED packages - Long-term luminous and radiant flux maintenance projection	SASO IEC 63013:2022	28
Optional specification	Solar energy - solar thermal collectors - test methods Solar energy — Solar thermal collectors — Test methods	SASO ISO 9806:2022	29
Optional specification	The use of lidar-mounted antennas for wind measurements Wind power generation systems - Part 50-3: Wind energy generation systems - Part 50-3: Use of nacelle-mounted lidars for wind measurements	SASO IEC 61400-50-3:2022	30

4 (Mechanical and Metal Products Sector:

Application adjective (optional/mandatory)	The title of the Saudi standard (Arabic / English)	Standard No. Saudi approved	M
mandatory specification (To be obligated starting from the 2024 AD models)	Road vehicles - controls, alerts and indicators Road vehicles - Controls, tell-tales and indicators	SASO 3004:2022	1
Mandatory specification (To be obligated starting from the 2024 AD models)	Road vehicles - windshield defrosting and defogging systems Road vehicles - Windshield defrosting and defogging systems	2022:3005 SASO	2
mandatory specification (To be obligated starting from the 2024 AD models)	Road Vehicles - Accelerator Control Systems Road vehicles - Accelerator control systems	2022:3006 SASO	3
Mandatory specification (To be obligated starting from the 2024 AD models)	Road vehicles - windshield wiper and washer systems Road vehicles - Windshield wiping and washing systems	2022:3007 SASO	4
mandatory specification (To be obligated starting from the 2024 AD models)	School buses - pedestrian safety devices School buses - Pedestrian safety devices	2022:3008 SASO	5
mandatory specification (To be obligated starting from the 2024 AD models)	School buses - roof strength School buses - Roof strength	SASO 3009:2022	6
mandatory specification (To be obligated starting from the 2024 AD models)	SCHOOL BUS - DURABILITY OF THE BUS BODY CONNECTIONS School buses - Body joint strength	2022:3010 SASO	7
mandatory specification (To be obligated starting from the 2024 AD models)	SCHOOL BUS - BARRIER BARRIER BACK TEST School buses – Rear crash test using moving barrier	2022:3011 SASO	8
Optional specification	Safety rules for the construction and installation of elevators, special uses for passenger elevators and passenger and cargo elevators - Part 72: elevators for firefighting men Safety rules for the construction and installation of lifts - Particular applications for passenger and goods passenger lifts - Part 72: Firefighters lifts	SASO EN81-72:2022	9
Optional specification	Safety rules for the construction and installation of lifts, lifts for the transport of passengers and goods - Part 40: Platforms for lifting persons with limited mobility and stair lifts Safety rules for the construction and installation of lifts - Special lifts for the transport of persons and goods - Part 40: Stairlifts and inclined lifting platforms intended for persons with impaired mobility	SASO EN81-40:2022	10
Optional specification	Safety rules, construction and installation of elevators, inspection and testing - Part 58: Testing the fire resistance of floor doors Safety rules for the construction and installation of lifts - Examination and tests - Part 58: Landing doors fire resistance test	SASO EN81-58:2022	11

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Application adjective (optional/mandatory)	The title of the Saudi standard (Arabic / English)	Standard No. Saudi approved	M
Optional specification	Steel ropes - Safety - Part 5: General requirements Steel wire ropes - Safety - Part 5: Stranded ropes for lifts	SASO EN 12385-5:2022	12
Optional specification	Passenger and freight elevators - Part 2: Calculations, design, inspection and testing of elevator parts Lifts for the transport of persons and goods - Part 2: Design rules, calculations, examinations and tests of lift components	SASO ISO 8100-2:2022	13
Optional specification	1) II Passenger and Goods Transport Elevators - Part 30: Installation of Class VI, III, Lifts Lifts for the transport of persons and goods - Part 30: Class I, II, III and VI lifts installation	SASO ISO 8100-30:2022	14
Optional specification	Passenger and freight elevators - Part 32: Planning and selection of passenger elevators for installation in offices, hotels and residential buildings Lifts for the transportation of persons and goods - Part 32: Planning and selection of passenger lifts to be installed in office, hotel and residential buildings	SASO ISO 8100-32:2022	15
Optional specification	Electrical requirements for elevators, escalators and moving walks - Part 1: Electromagnetic compatibility with respect to emissions Electrical requirements for lifts, escalators and moving walks - Part 1: Electromagnetic compatibility with regard to emission	SASO ISO 8102-1:2022	16
Optional specification	Electrical requirements for elevators, escalators, and moving walks - Part 6: Programmable Electronic Systems in Safety-Related Applications for Escalators and Moving Walks (PESSRAE) Electrical requirements for lifts, escalators and moving walks - Part 6: Programmable electronic systems in safety-related applications for escalators and moving walks (PESSRAE)	SASO ISO 8102-6:2022	17
Optional specification	Energy performance for elevators, escalators and moving walks - Part 2: Calculation of consumption and classification of elevators Energy performance of lifts, escalators and moving walks - Part 2: Energy calculation and classification for lifts (elevators)	SASO ISO 25745-2:2022	18
Optional specification	Energy performance for elevators, escalators and moving walks - Part 3: Energy calculation and classification of escalators and moving walks Energy performance of lifts, escalators and moving walks — Part 3: Energy calculation and classification of escalators and moving walks	SASO ISO 25745-3:2022	19
Optional specification	Water heated heat pumps - Testing and performance evaluation - Part 1: Heat pumps for water supply Heat pump water heaters - Testing and rating for performance - Part 1: Heat pump water heater for hot water supply	SASO ISO 19967-1:2022	20
Optional specification	Water heated heat pumps - Testing and performance evaluation - Part 2: Heat pumps for district heating Heat pump water heaters - Testing and rating for performance — Part 2: Heat pump water heaters for space heating	SASO ISO 19967-2:2022	21
Optional specification	Water Heater Heat Pumps - Testing and Performance Evaluation for Partial Load Conditions and Seasonal Efficiency Calculations for District Heating Heat pump water heater - Testing and rating at part load conditions and calculation of seasonal coefficient of performance for space heating	SASO ISO 21978:2022	22
Optional specification	Cooling systems and heat pumps - Environmental safety requirements - Part 1: Definitions, classification and selection criteria ,Refrigerating systems and heat pumps - Safety and environmental requirements - Part 1: Definitions classification and selection criteria	SASO ISO 5149-1:2022	23
Optional specification	Cooling systems and heat pumps - Environmental safety requirements - Part 2: Design, construction, testing, marking and documentation Refrigerating systems and heat pumps - Safety and environmental requirements - Part 2: Design, construction, testing, marking and documentation	SASO ISO 5149-2:2022	24
Optional specification	Cooling systems and heat pumps - Environmental safety requirements - Part 3: On-site installation Refrigerating systems and heat pumps - Safety and environmental requirements - Part 3: Installation site	2022:3-5149 ISO SASO	25
Optional specification	Cooling systems and heat pumps - Environmental safety requirements - Part 4: Operation, maintenance, restoration and repair ,Refrigerating systems and heat pumps - Safety and environmental requirements - Part 4: Operation maintenance, repair and recovery	SASO ISO 5149-4:2022	26
Optional specification	Safety Specifications for Air Filtration Units (High Efficiency - Particles and Air Filtration Units) Standard for Safety for High-Efficiency, Particulate, Air Filter Units	2022:586 UL SASO	27
Optional specification	Test method for evaluating the performance of gas-phase air purifiers and general ventilation devices - Part 1: Gas-phase air purifiers Test method for assessing the performance of gas-phase air cleaning media and devices for general ventilation - Part 1: Gas-phase air cleaning media	SASO ISO 10121-1:2022	28

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Application adjective (optional/mandatory)	The title of the Saudi standard (Arabic / English)	Standard No. Saudi approved	M
Optional specification	Test methods for assessing the performance of gas-phase air purifiers and general aerators - Part 2: Gas-phase air purifiers (GPACD) Test methods for assessing the performance of gas-phase air cleaning media and devices for general ventilation - Part 2: Gas-phase air cleaning devices (GPACD)	SASO ISO 10121-2:2022	29
Optional specification	Liquefied Petroleum Gas Equipment and Accessories - Technical Specification and Testing of Valves and Fittings for LPG Pressure Vessels LPG Equipment and accessories - Specification and testing for Liquefied Petroleum Gas (LPG) pressure vessel valves and fittings	SASO EN 13175:2022	30
Optional specification	Liquefied Petroleum Gas Equipment and Accessories - Inspection and Rehabilitation of LPG Pressure Vessels with a Volume Exceeding 13 m3/sec LPG equipment and accessories - Inspection and requalification of LPG pressure vessels greater than 13 m³s	SASO EN 12819:2022	31
Optional specification	Liquefied Petroleum Gas Equipment and Accessories - Liquefied Petroleum Gas Pressure Vessel Equipment Fitting above and below ground LPG equipment and accessories - Equipping of overground and underground LPG vessels	SASO EN 14570:2022	32

5 (Measurements and Scales Sector:

Application adjective (optional/mandatory)	The title of the Saudi standard (Arabic / English)	Standard No. Saudi approved	M
Optional specification	Measuring power quality in power supply systems - Part 2: Functional tests and uncertainty requirements Power Quality Measurement in Power Supply Systems - Part 2: Functional tests and uncertainty requirements	SASO IEC 62586-2:2022	1
Optional specification	Hydrometrics - Doppler Acoustic - Method and Application for Measurement of Flow in Open Channels of a Moving Boat Hydrometry - Acoustic Doppler profiler - Method and application for measurement of flow in open channels from a moving boat	SASO ISO 24578:2022	2
Optional specification	Standard Test Method for Estimating the Lost Radiated Power Ratio of Dispersed Spectrophotometers by Dark Filter Method Standard Test Method for Estimating Stray Radiant Power Ratio of Dispersive Spectrophotometers by the Opaque Filter Method	SASO ASTM E387:2022	3
Optional specification	Vacuum technology - Vacuum gauges - Procedures for measuring and determining gas release rates Vacuum technology - Vacuum gauges - Procedures to measure and report outgassing rates	SASO ISO/TS 20177:2022	4
Optional specification	Engineering Product Specifications (GPS)- (Acceptance and Re-Tests for Coordinate Measurement Systems (CMS)- Part 13: Optical 3D coordinate measurement systems Geometrical product specifications (GPS) - Acceptance and reverification tests for coordinate measuring systems (CMS) - Part 13: Optical 3D CMS	SASO ISO 10360-13:2022	5
Optional specification	Acoustics - Outdoor sound accounting software - Part 4: Recommendations for European Commission (EU) quality assurance implementation ISO 17534-1 compliant software in 996/2015 Acoustics - Software for the calculation of sound outdoors - Part 4: Recommendations for a quality as sured implementation of the COMMISSION DIRECTIVE (EU) 2015/996 in software according to ISO 17534-1	SASO ISO TR 17534-4:2022	6
Optional specification	Acoustics - Determining and applying measurement uncertainties in building acoustics - Part 2: Sound absorption Acoustics - Determination and application of measurement uncertainties in building acoustics - Part 2: Sound	SASO ISO 12999-2: 2022	7
Optional specification	Underwater Phonics - Terminology Underwater acoustics - Terminology	SASO ISO 18405:2022	8
Optional specification	Acoustics - Test methods for qualifying the acoustic environment - Part 1: Qualification of free-field environments Acoustics - Test methods for the qualification of the acoustic environment - Part 1: Qualification of free-field environments	SASO ISO 26101-1:2022	9
Optional specification	Acoustics - Methods for calculating loudness - Part 2: Moore-Glasberg method Acoustics — Methods for calculating loudness - Part 2: Moore-Glasberg method	SASO ISO 532-2:2022	10

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Mandatory and optional Saudi standards approved in the meeting of the Board of Directors of the Authority No. (187) Held on 10/03/1444 AH.. Continued

6) Construction and Building Materials Sector:

Application adjective (optional/mandatory)	The title of the Saudi standard (Arabic / English)	The approved Saudi standard number	M
Optional specification	Standard test method for air content of freshly mixed concrete by volumetric method Standard Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method	SASO ASTM C173/C173M: 2022	1
Optional specification	Standard Test Method for Flexural Strength of Concrete (Using a Simple Girder with Center Point Load) Standard Test Method for Flexural Strength of Concrete (Using Simple Beam With Center-Point Loading)	SASO ASTM C293/C293M:2022	2
Optional specification	Life cycle management of concrete structures Life cycle management of concrete structures	SASO ISO 22040:2022	3
Optional specification	Sustainability in buildings and civil engineering works - Carbon measure of an existing building during the use phase - Part 1: Accounting, reporting and communication Sustainability in buildings and civil engineering works - Carbon metric of an existing building during use stage - Part 1: Calculation, reporting and communication	SASO ISO 16745-1:2022	4
Optional specification	Sustainability in Buildings and Civil Engineering Works - Carbon Scale for an Existing Building during the Use Phase - Part 2: Verification Sustainability in buildings and civil engineering works - Carbon metric of an existing building during use stage - Part 2: Verification	SASO ISO 16745-2:2022	5
Optional specification	Standard Guide to Designing Sustainable Low Slope Roofing Systems Standard Guide for Design of Sustainable, Low-Slope Roofing Systems	SASO ASTM D7851:2022	6
Optional specification	Building glass - Basic soda lime silicate glass products - Part 1: Definitions and physical properties and general mechanics Glass in building - Basic soda lime silicate glass products - Part 1: Definitions and general physical and mechanical properties	SASO EN 572-1:2022	7
Optional specification	Building glass - Basic soda lime silicate glass products - Part 2: Float glass Glass in building - Basic soda lime silicate glass products - Part 2: Float glass	SASO EN 572-2:2022	8
Optional specification	Building glass - Basic soda lime silicate glass products - Part 3: float and wire-reinforced glass Glass in building - Basic soda lime silicate glass products - Part 3: Polished wired glass	2022:3-572 EN SASO	9
Optional specification	Building glass - Basic soda lime silicate glass products - Part 4: Extruded glass panels Glass in building - Basic soda lime silicate glass products - Part 4: Drawn sheet glass	SASO EN 572-4:2022	10
Optional specification	Building glass - Basic soda lime silicate glass products - Part 5: Decorative glass Glass in building - Basic soda lime silicate glass products - Part 5: Patterned glass	SASO EN 572-5:2022	11
Optional specification	Building glass - Basic soda lime silicate glass products - Part 6: Decorative and wired glass Glass in building - Basic soda lime silicate glass products - Part 6: Wired patterned glass	SASO EN 572-6:2022	12
Optional specification	Building glass - Basic soda lime silicate glass products - Part 7: Channeled, reinforced and unwired glass Glass in building - Basic soda lime silicate glass products - Part 7: Wired or unwired channel shaped glass	SASO EN 572-7:2022	13
Optional specification	Building glass - Basic soda lime silicate glass products - Part 9: Conformity assessment/product specification /Glass in building - Basic soda lime silicate glass products - Part 9: Evaluation of conformity Product standard	SASO EN 572-9:2022	14
Optional specification	Building glass - Coated glass - Part 5 - Method of test and classification for self-cleaning performance of painted glass surfaces Glass in building - Coated glass - Part 5 - Test method and classification for the self-cleaning performances of coated glass surfaces	SASO EN 1096-5:2022	15
Optional specification	Wooden panels - plywood - solid panels and beams Wood-based panels - Plywood - Blockboards and battenboards	2022:13609 ISO SASO	16

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Mandatory and optional Saudi standards approved in the meeting of the Board of Directors of the Authority No. (187) Held on 10/03/1444 AH.. Continued

7) Services sector:

Application adjective (optional/mandatory)	The title of the Saudi standard (Arabic / English)	The approved Saudi standard number	M
Optional specification	Reception service quality requirements Reception service quality requirements	SASO 3012:2022	1
Optional specification	Standard guide for general planning of waste sampling Standard Guide for General Planning of Waste Sampling	SASO ASTM D4687:2022	2
Optional specification	Ships and marine technology - marine environment protection - ship waste management and treatment Ships and marine technology - Marine environment protection - Management and handling of shipboard garbage	SASO ISO 21070:2022	3
Optional specification	Standard Guide to the Useful Use of Landfills and Chemically Affected Sites Standard Guide for Beneficial Use of Landfills and Chemically Impacted Sites	SASO ASTM E3033:2022	4
Optional specification	Standard Manual for Composite Sampling and Sub-field Sampling for Environmental Waste Management Activities Standard Guide for Composite Sampling and Field Sub-sampling for Environmental Waste Management Activities	SASO ASTM D6051:2022	5
Optional specification	Guidelines for the use of treated wastewater in irrigation projects - Part 1: Foundations of a reuse in irrigation project Guidelines for treated wastewater use for irrigation projects - Part 1: The basis of a reuse project for irrigation	SASO ISO 16075-1:2022	6
Optional specification	Sustainable Cities and Societies - Indicators for Resilient Cities Sustainable cities and communities - Indicators for resilient cities	SASO ISO 37123:2022	7
Optional specification	Geographical information - Characteristics of separate global network systems - Part 1: The basic reference system, operations and equal reference system for the territory of the region Geographic information - Discrete Global Grid Systems Specifications - Part 1: Core Reference System and Operations, and Equal Area Earth Reference System	SASO ISO 19170-1:2022	8
Optional specification	Data Centers - KPIs - Part 2: Energy Efficiency (PUE) Data centres - Key performance indicators - Part 2: Power usage effectiveness (PUE)	SASO ISO/IEC 30134-2:2022	9
Optional specification	Information technology - learning, teaching and training - requirements for e-textbooks in education Information technology - Learning, education, and training - Requirements for e-textbooks in education	SASO ISO/IEC TR 18120:2022	10
Optional specification	Actual time in IoT Framework (IoT) Internet of Things Internet of Things (IoT) - Real-time IoT framework	SASO ISO/IEC 30165:2022	11
Optional specification	Internet of Things (IoT) - (Reference architecture Internet of things (IoT) - Reference architecture	SASO ISO/IEC 30141:2022	12
Optional specification	Recreational diving services - Recreational divers training requirements - Part 1: Level 1 - Supervised Diver Recreational diving services - Requirements for the training of recreational scuba divers Part 1: Level 1 Supervised diver	2022: 1-24801 ISO SASO	13
Optional specification	Recreational diving services - recreational divers training requirements - part 2 Level 2 - independent diver Recreational diving services - Requirements for the training of recreational scuba divers - Part 2: Level 2 - Autonomous diver	2022:2-24801 ISO SASO	14
Optional specification	Recreational diving services - Recreational divers training requirements - Part 3: Level 3 - Lead diver Recreational diving services - Requirements for the training of recreational scuba divers - Part 3: Level 3 - Dive leader	2022:3-24801 ISO SASO	15
Optional specification	Markets, shows, exhibitions and conferences - Part 1: Vocabulary Exhibitions, shows, fairs and conventions - Part 1: Vocabulary	2022: 1-25639 ISO SASO	16
Optional specification	Markets, Shows, Exhibitions and Conferences - Part 2: Measurement Procedures for Statistical Purposes Exhibitions, shows, fairs and conventions - Part 2: Measurement procedures for statistical purposes	2022:2-25639 ISO SASO	17
Optional specification	Quality Management - Guidance on Statistical Methods for ISO 9001: 2015 Quality management - Guidance on statistical techniques for ISO 9001:2015	SASO ISO 10017:2022	18
Optional specification	Quality Management - Guidance for Competency Management and People Development Quality management - Guidelines for competence management and people development	SASO ISO 10015:2022	19

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Mandatory and optional Saudi standards approved in the meeting of the Board of Directors of the Authority No. (187) Held on 10/03/1444 AH.. Continued

b) List of Saudi Standards - (Optional / Mandatory) - (New), and (Withdrawn) their equivalent:

1 (Electrical and electronic products sector:

Reason for withdrawal (Cancellation)	The title of the approved Saudi standard to be withdrawn	Certified Saudi Standard No. (to be withdrawn)	Application status (optional/mandatory)	The title of the approved Saudi standard	Certified Saudi Standard No.	M
Internationally exchanged	Compression and mechanical connections of power cables for rated voltages up to 30 - V (36 - Um - V) - Part 1: Test methods and requirements Compression and mechanical connectors for power cables for rated voltages up to 30 kV (Um = 36 kV) – Part 1: Test methods and requirements	SASO IEC 61238-1:2008	Optional specification	Compression and mechanical bonding of power cables - Part 1.1: Test methods and requirements for compression and mechanical bonding of power cables for rated voltages up to 1 kV (Um = 2.1 kV) tested on uninsulated conductors Compression and mechanical connectors for power cables - Part 1-1: Test methods and requirements for compression and mechanical connectors for power cables for rated voltages up to 1 kV (Um = 1,2 kV) tested on non-insulated conductors	SASO IEC 61238-1-1:2022 1	
			Optional specification	Compression and Mechanical Ties for Power Cables - Part 1-2: Test Methods and Requirements for Insulation Penetration Ties for Power Cables for rated voltages up to 1 kV (Um=2.1 kV) tested on insulated conductors Compression and mechanical connectors for power cables - Part 1-2: Test methods and requirements for insulation piercing connectors for power cables for rated voltages up to 1 kV (Um = 1,2 kV) tested on insulated conductors	SASO IEC 61238-1-2:2022 2	
			Optional specification	Compression and mechanical bonding of power cables - Part 1.3: Test methods and requirements for compression and mechanical bonding of power cables for rated voltages above 1 kV (Um = 2.1 kV) up to 30 kV (Um = 36 kV) tested on non-conductive conductors isolated Compression and mechanical connectors for power cables - Part 1-3: Test methods and requirements for compression and mechanical connectors for power cables for rated voltages above 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV) tested on non insulated conductors	SASO IEC 61238-1-3:2022 3	
Internationally exchanged	High voltage disconnection, connection and control equipment - Part 206: Voltage detection systems for rated voltages above - kV up to and including 52 kV High-voltage switchgear and controlgear - Part 206: Voltage presence indicating systems for rated voltages above 1 kV and up to and including 52 kV	SASO IEC 62271-206:2012	optional specification	High voltage cut-off, connection and control equipment - Part 215: phase comparator used with the voltage detection and indication system High-voltage switchgear and controlgear - Part 215: Phase comparator used with VDIS	SASO IEC 62271-215:2022 4	

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Mandatory and optional Saudi standards approved in the meeting of the Board of Directors of the Authority No. (187) Held on 10/03/1444 AH.. Continued

2 (Measurements and Scales Sector:

Reason for withdrawal	The title of the approved Saudi standard to be withdrawn	Certified Saudi Standard No. (to be withdrawn)	Application status (optional/mandatory)	The title of the approved Saudi standard	Certified Saudi Standard No.	M
Because it has been withdrawn and replaced from its reference	Optics and Photonics - Environmental Requirements - Part 1: Overview, Terminology, Definitions, Climate Zones and Their Variables Optics and photonics - Environmental requirements - Part 1: General ,overview, terms and definitions climatic zones and their parameters	SASO ISO 10109-1:2008	optional specification	Optics and Photonics - Guidelines for Selecting Environmental Tests Optics and photonics - Guidance for the selection of environmental tests	SASO ISO 10109:2022	١
Since it has been withdrawn from its reference	Audio - Method for calculating noise level Acoustics - Method for calculating loudness level	SASO ISO 532:2006	optional specification	Acoustics - Methods for calculating loudness - Part 1: Zwicker's method Acoustics - Methods for calculating loudness - Part 1: Zwicker method	SASO ISO 532-1:2022	٢
Since it has been withdrawn from its reference	Petroleum Measurement Tables Petroleum measurement tables	SASO OIML R 63:2006	optional specification	Petroleum measurement tables Petroleum measurement tables	SASO OIML D35:2022	3

3) Services sector:

Reason for withdrawal (Cancellation)	The title of the approved Saudi standard to be withdrawn	Certified Saudi Standard No. (to be withdrawn)	Application status (optional/mandatory)	The title of the approved Saudi standard	Certified Saudi Standard No.	M
Integration of specifications related to youth into one	Working with youth Workers with Youth	SASO-2968:2021	Optional specification	Professional environment for youth work Professional environment for youth work	SASO 3013:2022	١
	Youth Programs Youth Programs	SASO-2969:2021				
	youth environments Youth Environments	SASO-2970:2021				

02-01-05-22-38-TL :) (Document No.: Second

A) Saudi Standards (optional/mandatory) - (updating) specifications (adopted in two languages) as follows:

1 (Measurements and Scales Sector:

Application adjective (Optional specification / Mandatory specification)	The title of the Saudi standard (updated) (Arabic / English)	Standard No. Saudi approved (updated)	Standard No. Saudi approved (to be updated)	M
Optional specification	Jewelery and Precious Metals - Determination of Gold - Crucible Method (Fire Examination) Jewellery and precious metals - Determination of gold- Cupellation method (fire assay)	SASO ISO 11426:2022	SASO ISO 11426:2018	١
Optional specification	Optics and Optical Instruments - Additional Means for Geodesic Instruments - Part 2: Tripods Optics and optical instruments - Ancillary devices for geodetic instruments - Part 2: Tripods	SASO ISO 12858-2:2022	SASO GSO ISO 12858-2:2008	٢
Optional specification	Metrological organization during pregnancy - Part 1: Metrological and technical requirements Metrological regulation for load cells- Part 1: Metrological and technical requirements	SASO OIML R 60-1:2022	SASO OIML R 60-1:2019	3
Optional specification	Metrological organization during pregnancy - Part 2: Metrological controls and performance tests Metrological regulation for load cells- Part 2: Metrological controls and performance tests	SASO OIML R 60-2:2022	SASO OIML R 60-2:2019	٤

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Mandatory and optional Saudi standards approved in the meeting of the Board of Directors of the Authority No. (187) Held on 10/03/1444 AH.. Continued

Application adjective (Optional specification / Mandatory specification)	The title of the Saudi standard (updated) (Arabic / English)	Standard No. Saudi approved (updated)	Standard No. Saudi approved (to be updated)	M
Optional specification	Figure 3: Test Report Interstitial Metrological Pregnancy Metrological regulation for load cells- Part 3: Test report format	SASO OIML R 60-3:2022	SASO OIML R 60-3:2019	5
Optional specification	Metrological organization during pregnancy - Appendices Metrological regulation for load cells-Annexes	SASO OIML R 60- Annexes : 2022	SASO OIML R 60- Annexes : 2019	6
Optional specification	Dynamic measurement systems for fluids other than water - Part 3: Test report format Dynamic measuring systems for liquids other than water - Part 3: Test report format	SASO OIML R 117-3:2022	SASO OIML R 117-3:2017	7

B) Adoption of Saudi Standards - (Update) the (Optional / Mandatory) Specifications Adopted in its Language and (Translated) into Arabic:

1 (Measurements and Scales Sector:

Application adjective	The title of the Saudi standard (Updated and translated)	Standard No. Saudi approved	Standard No. Saudi approved	M
Optional specification	Thermocouples - Part 3: Extension and Compensation Cables - Tolerances and Label System Thermocouples - Part 3: Extension and compensating cables - Tolerances and identification system	SASO IEC 60584-3:2022	SASO IEC 60584-3:2015	1
Optional specification	Electrical measurement transducers used to convert alternating and direct current electrical quantities into digital or analog signals. Electrical measuring transducers for converting AC and DC electrical quantities to analogue or digital signals	SASO IEC 60688:2022	SASO IEC 60688:2015	2
Optional specification	Radio interference characteristics of overhead power lines and high voltage equipment - Part 2: Measurement methods and limitation procedures Radio interference characteristics of overhead power lines and high-voltage equipment - Part 2: Methods of measurement and procedure for determining limits	SASO CISPR 18-2:2022	SASO CISPR 18-2:2014	3
Optional specification	Radio interference characteristics of overhead power lines and high voltage equipment - Part 3: Code of practice for reducing radio noise generation Radio interference characteristics of overhead power lines and high-voltage equipment - Part 3: code of practice for minimizing the generation of radio noise	SASO CISPR 18-3:2022	SASO CISPR 18-3:2014	4
Optional specification	Electrical equipment used for measurement, control and laboratories - Electromagnetic compatibility requirements - Part 2-4: Special requirements - Test arrangements, operational conditions, and performance standards for IEC 61557-8 control devices and for equipment for the location of insulation failure in accordance with IEC 61557-8 IEC 61557-9 Standard Specification Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-4: Particular requirements - Test configurations, operational conditions and performance criteria for insulation monitoring devices according to IEC 61557-8 and for equipment for insulation fault location according to IEC 61557-9	SASO IEC 61326-2-4:2022	SASO IEC 61326-2-4:2014	5
Optional specification	Electrical equipment used for measurement, control, and laboratories - Electromagnetic compatibility requirements - Part 2.5: Special requirements - Test arrangements, operational conditions and performance standards for bus-interfaced field devices (according to IEC 61784-1). Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-5 Particular requirements -Test configurations, operational conditions and performance criteria for field devices with field bus interfaces according to IEC 61784-1	SASO IEC 61326-2-5:2022	SASO IEC 61326-2-5:2008	6
Optional specification	Electrical equipment used for measurement, control and laboratories - Electromagnetic compatibility requirements - Part 6-2: Special requirements - Medical equipment for extracorporeal diagnosis Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-6: Particular requirements – In vitro diagnostic (IVD) medical equipment	SASO IEC 61326-2-6:2022	SASO IEC 61326-2-6:2014	7

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Mandatory and optional Saudi standards approved in the meeting of the Board of Directors of the Authority No. (187) Held on 10/03/1444 AH.. Continued

Application adjective	The title of the Saudi standard (Updated and translated)	Standard No. Saudi approved	Standard No. Saudi approved	M
Optional specification	Hydrometric measurements - measurement of fluid flow in open channels - cross-sectional area and velocity methods using velocity measurements at a point Hydrometry - Measurement of liquid flow in open channels - Velocity area methods using point velocity measurements	SASO ISO 748:2022	SASO ISO 748:2014	8
Optional specification	Oscillating-type Densitometers - Part 1: Laboratory Equipment Oscillation-type density meters - Part 1: Laboratory instruments	SASO ISO 15212-1:2022	SASO ISO 15212-1:2005	9
Optional specification	Oscillating-Type Densitometers - Part 2: Processing Equipment for Homogeneous Liquids Oscillation-type density meters - Part 2: Process instruments for homogeneous liquids	SASO ISO 15212-2:2022	SASO ISO 15212-2:2006	10

C) Adoption of Saudi Standards (Optional / Mandatory) - (Update adopted in its language with the addition of national amendments):

1) The construction and building materials sector:

Application adjective	The title of the Saudi standard (After the update)	Standard No. Saudi approved	Standard No. Saudi approved	M
Optional specification	Standard specification for steel sheets, covered by 55% with an alloy (aluminum-zinc) by hot immersion method. Standard Specification for Steel Sheet, 55 % Aluminum-Zinc Alloy-Coated by the Hot-Dip Process	SASO ASTM A792/A792M:2022	SASO ASTM A792:2014	1
Optional specification	Standard specification for steel sheets made of double-rolled zinc-coated (galvanized) by hot-dip method. Standard Specification for Steel Sheet, Twin- Roll Cast, Zinc-Coated (Galvanized) by the Hot-Dip Process	SASO ASTM A1063/A1063M:2022	SASO ASTM A1063M:2021	2

03-01-05-22-38-TL: (Document No.: Third)

A) Approving the Saudi Standard Specifications - (Amendment) the prepared standard specification (optional/mandatory) (by adding an appendix) as follows:

1 (Mechanical and Metal Products Sector:

Application adjective (optional/mandatory)	The title of the approved Saudi standard (Arabic / English)	Modification extension number	The approved Saudi standard number	M
mandatory specification Starting from 2023 models y	Buses - Design requirements - Amendment 2 Buses - Requirements of Construction- Amendment 2	SASO 2946/AMD2:2022	SASO 2946:2020	1

B) Approval of Saudi Standards - (Correct) No. of the prepared standard (optional / mandatory):

1) Chemical and petroleum products sector:

Application adjective (optional/mandatory)	The title of the approved Saudi standard (Arabic / English)	The approved Saudi standard number (before correction)	The approved Saudi standard number (after correcting)	M
Optional specification	Automotive oil bottles made from post-consumer recycled materials Car oil bottles made from Post-consumer recycled materials (PCR)	SASO 2984:2022	SASO 2989:2022	1

Document No. (L.T-38-22-05-01-04), (Approval of Saudi Standards that have been revised and translated into (Arabic) - (Translation): Fourthly

1) Services sector:

Application adjective (Optional specification / Mandatory specification)	Title of the Translated Certified Saudi Standard (Arabic / English)	The number of the approved translated Saudi standard	The approved Saudi standard number (Revision and translation required)	M
Optional specification	Sustainable Development in Communities - Management System for Sustainable Development - Requirements with User Guide Sustainable development in communities - Management system for sustainable development - Requirements with guidance for use	SASO ISO 37101:2018	SASO ISO 37101:2018	1

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Mandatory and optional Saudi standards approved in the meeting of the Board of Directors of the Authority No. (187) Held on 10/03/1444 AH.. Continued

Fifthly

Document No. (L.T-38-22-05-01-05), (Approval of Saudi Standards (Optional) - (Withdrawal and Replacement) as follows:

1) Chemical and petroleum products sector:

Reason for withdrawal	Saudi Standard Title approved	Specification reference number	Certified Saudi Standard No.	Characteristic of the application of the specification	Specification title Saudi approved	Certified Saudi Standard No.	M
primary reference talk	Lubricants for combustion engines Lubricating Oils for internal Internal Combustion	American Petroleum Institute)API(	SASO GSO ISO 1785:2013	mandatory specification	Lubricants for combustion engines Internal according to the classification of the American Petroleum Institute Lubricating Oils for Internal Combustion Engines API Classifications	SASO 19:2022	

Sixthly

Document No. (L.T-38-22-05-02-01), approving the Gulf standards that have been approved as Saudi standards, and they are as follows:

1 (The Gulf Technical Committee for the Mechanical and Metallic Specifications Sector (TC2):)

The corresponding Saudi standard number to be withdrawn	Application adjective	Standard title (English)	Standard Title (Arabic)	Gulf Standard No.	The approved Saudi standard number	M
SASO ISO 3807:2020	optional specification	Gas cylinders - Acetylene cylinders - Basic requirements and type testing	- acetylene cylinders - gas cylinders Basic requirements and type test	GSO ISO 3807: 2021	SASO GSO ISO 3807:2022	1
SASO ISO 4301-1:2007	optional specification	Cranes - Classification - Part 1: Gen eral	General: Part One - Classification - Cranes	GSO ISO 4301-1:2021	SASO GSO ISO 4301-1:2022	2
SASO ISO 4305:3007	Optional specification	Mobile cranes - Determination of stability	Stability Fixing - Mobile Cranes	GSO ISO 4305: 2021	SASO GSO ISO 4305:2022	3
SASO ISO 4309:2019	optional specification	Cranes - Wire ropes - Care and main tenance, inspection and discard	Care - metal ropes - slings Maintenance, installation and change	GSO ISO 4309: 2021	SASO GSO ISO 4309:2022	4
SASO ISO 6182-1:2020	optional specification	Fire protection - Automatic sprinkler :systems - Part 1 Requirements and test methods for sprinklers	Fire prevention - automatic sprinkler systems - part one: requirements and test methods for sprinklers	GSO ISO 6182-1:2021	SASO GSO ISO 6182-1:2022	5
SASO ISO 6508-1:2020	optional specification	Metallic materials - Rockwell hardness test - Part 1: Test method	Hardness test method - mineral materials Roe Coyle - Part One: Test Method	GSO ISO 6508-1:2021	SASO GSO ISO 6508-1:2022	6
it has no return	Optional specification	Fire protection - Foam fire extinguish ing systems - Part 3: Medium expan sion foam equipment	Fire protection - Foam fire extinguishing systems - Part Three: Medium expansion foam extinguishing equipment	GSO ISO 7076-3:2021	SASO GSO ISO 7076-3:2022	7
it has no return	Optional specification	Fire protection - Foam fire extinguishing systems - Part 4: High expansion foam equipment	Fire protection - Foam fire extinguishing systems - Part 4: High expansion foam extinguishing equipment	GSO ISO 7076-4:2021	SASO GSO ISO 7076-4:2022	8
SASO ISO 7438:2017	optional specification	Metallic materials - Bend test	Bending Test - Metallic Material	GSO ISO 7438: 2021	SASO GSO ISO 7438: 2022	9
SASO ISO 7738:2020	optional specification	Assembly tools for screws and nuts - Combination wrenches - Lengths of wrenches and maximum thickness of heads	Number of mounting bolts and nuts - key sets - key lengths and maximum thickness of key heads	GSO ISO 7738: 2021	SASO GSO ISO 7738:2022	10
SASO ISO 8566-1:2014	optional specification	Cranes - Cabins and control stations - Part 1: General	Stations and compartments - cranes Control - Part One: General	GSO ISO 8566-1:2021	SASO GSO ISO 8566-1:2022	11
SASO ISO 8566-5:2019	optional specification	Cranes - Cabins and control stations - Part 5: Overhead travelling and portal bridge cranes	Cranes - cabins and control stations - Part Five: Overhead cranes and mobile gantry cranes	GSO ISO 8566-5:2021	SASO GSO ISO 8566-5:2022	12
SASO ISO 8666:2021	optional specification	Small craft - Principal data	Data - Small (boats) basic	GSO ISO 8666: 2021	SASO GSO ISO 8666:2022	13
SASO ISO 8686-5:2019	optional specification	Cranes - Design principles for loads and load combinations - Part 5: Overhead travelling and portal bridge cranes	Cranes - Principles for designing loads and combinations of combined loads - Part V: Overhead cranes and mobile gantry cranes	GSO ISO 8686-5:2021	SASO GSO ISO 8686-5:2022	14
SASO ISO 9094:2017	optional specification	Small craft - Fire protection	Protection - small (boats) fire from	GSO ISO 9094: 2021	SASO GSO ISO 9094:2022	15

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Mandatory and optional Saudi standards approved in the meeting of the Board of Directors of the Authority No. (187) Held on 10/03/1444 AH.. Continued

The corresponding Saudi standard number to be withdrawn	Application adjective	Standard title (English)	Standard Title (Arabic)	Gulf Standard No.	The approved Saudi standard number	M
SASO ISO 9221-1:2020	optional specification	Furniture - Children›s high chairs - Part 1: Safety requirements	-High Children Chairs -Furniture PART 1: SAFETY REQUIREMENTS	GSO ISO 9221-1:2021	SASO GSO ISO 9221-1:2022	16
SASO ISO 9221-2:2020	optional specification	Furniture - Children›s high chairs - Part 2: Test methods	Segment- High Children Chairs - Furniture Second: Test methods	GSO ISO 9221-2:2021	SASO GSO ISO 9221-2:2022	17
SASO ISO 9928-2:2019	optional specification	Cranes - Crane operating manual - Part 2: Mobile cranes	Part - Crane Operation Manual - Cranes Two: mobile cranes	GSO ISO 9928-2:2021	SASO GSO ISO 9928-2:2022	18
SASO ISO 10300-1:2021	optional specification	Calculation of load capacity of bevel gears - Part 1: Introduction and general influence factors	Load Capacity Calculation of Bevel Gears - Part One: Introduction and General Influencing Factors	GSO ISO 10300-1:2021	SASO GSO ISO 10300-1:2022	19
SASO ISO 10300-2:2021	optional specification	Calculation of load capacity of bevel gears - Part 2: Calculation of surface)durability (pitting	bevel gears load capacity calculation - Part Two: Calculation of Surface Strength	GSO ISO 10300-2:2021	SASO GSO ISO 10300-2:2022	20
SASO ISO 10300-3:2021	optional specification	Calculation of load capacity of bevel gears - Part 3: Calculation of tooth root strength	Calculation of the load capacity of bevel gears - Part Three: Calculation of the strength of the tooth root	GSO ISO 10300-3:2021	SASO GSO ISO 10300-3:2022	21
SASO ISO 10462-2007	optional specification	Gas cylinders Acetylene cylinders Periodic inspection and maintenance	acetylene cylinders - gas cylinders SOLUTION - PERIODIC INSPECTION AND MAINTENANCE	GSO ISO 10462: 2021	SASO GSO ISO 10462:2022	22
SASO ISO 11623:2020	optional specification	Gas cylinders — Composite construction — Periodic inspection and testing	Gas cylinders - composite structure gas cylinders - periodic inspection and testing	GSO ISO 11623: 2021	SASO GSO ISO 11623:2022	23
SASO ISO 12239:2014	optional specification	Smoke alarms using scattered light, transmitted light or ionization	Alarms for detecting smoke using scattered light, transmitted light or ionization	GSO ISO 12239: 2021	SASO GSO ISO 12239:2022	24
SASO ISO 13943:2018	optional specification	Fire safety — Vocabulary	Terminology - fire fighting	GSO ISO 13943: 2021	SASO GSO ISO 13943:2022	25
SASO ISO 14104:2020	optional specification	Gears — Surface temper etch inspection after grinding, chemical method	After surface treatment checking - gears Grinding using chemical method	GSO ISO 14104: 2021	SASO GSO ISO 14104:2022	26
SASO ISO 14520-12:2020	optional specification	Gaseous fire-extinguishing systems - Physical properties and system design - Part 12: IG-01 extinguishant	Gas fire extinguishing systems - physical properties and design system - Part 12: IG-01 extinguisher	GSO ISO 14520-12: 2021	SASO GSO ISO 14520-12: 2022	27
SASO ISO 14520-13:2020	optional specification	Gaseous fire-extinguishing systems - Physical properties and system design - Part 13: IG-100 extinguishant	Invasive - properties، Physical Extinguishing Systems and Design System - Part Thirteen: IG-100 Extinguisher	GSO ISO 14520-13: 2021	SASO GSO ISO 14520-13: 2022	28
SASO ISO 14520-14:2020	optional specification	Gaseous fire-extinguishing systems — Physical properties and system design — Part 14: IG-55 extinguishant	Gas fire extinguishing systems - physical properties and design system - Part fourteen: IG-55 extinguisher	GSO ISO 14520-14: 2021	SASO GSO ISO 14520-14: 2022	29
SASO ISO 14520-15:2020	optional specification	Gaseous fire-extinguishing systems - Physical properties and system design - Part 15: IG-541 extinguishant	Gas fire extinguishing systems - physical properties and design system - Part fifteen: IG-541 extinguisher	GSO ISO 14520-15: 2021	SASO GSO ISO 14520-15: 2022	30
SASO ISO 16093:2018	optional specification	Machine tools - Safety - Sawing machines for cold metal	Sawing Machinery - Safety - Machinery Tools for cold metals	GSO ISO 16093: 2021	SASO GSO ISO 16093:2022	31
it has no return	system propulsion Electric - craft Small Optional Specification		Propulsion system - small boats electric	GSO ISO 16315: 2021	SASO GSO ISO 16315:2022	32
it has no return	Optional specification	Wheelchairs - Resistance to ignition of non-integrated seat and back support cushions - Part 10: Requirements and test methods	Wheelchairs - Flame Resistant for Unintegrated Seat Back Support Cushions - Part 10: Requirements and Test Methods	GSO ISO 16840-10: 2021	SASO GSO ISO 16840-10: 2022	33
it has no return	Optional specification	Cranes - Safety - Load lifting attachments	Load Lifting Tools - Safety - Cranes GSO ISO 17096:2021		SASO GSO ISO 17096:2022	34
SASO ISO 17638: 2022	optional specification	Non-destructive testing of welds - Magnetic particle testing	For terminal connections other than the tests Welded - testing of magnetic particles	GSO ISO 17638: 2021	SASO GSO ISO 17638:2022	35

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The corresponding Saudi standard number to be withdrawn	Application adjective	Standard title (English)	Standard Title (Arabic)	Gulf Standard No.	The approved Saudi standard number	M
it has no return	Optional specification	Ships and marine technology - Globe valves for use in low temperature applications - Design and testing requirements	Ship and marine technology Ball valves for low temperature use Applications Design and test requirements	GSO ISO 18139: 2021	SASO GSO ISO 18139:2022	36
it has no return	Optional specification	Ships and marine technology - Safety valve for cargo tanks of LNG carriers - Design and testing requirements	Ships and Marine Technology Safety Valve for LNG Cargo Tankers Design and Test Requirements	GSO ISO 18154: 2021	SASO GSO ISO 18154:2022	37
it has no return	Optional specification	Ships and marine technology - Marine requirements General - cranes	Naval and ship technology General requirements - offshore cranes	GSO ISO 19354: 2021	SASO GSO ISO 19354:2022	38
it has no return	Optional specification	Ships and marine technology - Marine cranes - Test specifications and procedures	Ships and marine technology Offshore cranes - testing specifications and procedures	GSO ISO 19356: 2021	SASO GSO ISO 19356:2022	39
versus her not	optional specification	Disc springs — Part 1: Calculation	Calculation: Part 1 - Spool Springs GSO ISO ISO 19690-1:2021 SASO GSO ISO ISO 19690-1:2022			40
it has no return	Optional specification	Welding consumables — Rods for gas -welding of non-alloy and creep resisting steels — Classification	Consumables - Gas welding rods for non-alloy steels and creep resistance of steels - Classification	GSO ISO 20378: 2021	SASO GSO ISO 20378:2022	41
SASO ISO 23277:2008	optional specification	— Non-destructive testing of welds Penetrant testing — Acceptance levels	Welding to sever joints No tests - Penetration Testing - Acceptance Levels	GSO ISO 23277: 2021	SASO GSO ISO 23277:2022	42
SASO ISO 24431:2008	optional specification	Gas cylinders — Seamless, welded and composite cylinders for compressed and liquefied gases (excluding acetylene) — Inspection at time of filling	Gas cylinders - welded, seamless and composite cylinders for compressed and liquefied gases (excluding acetylene) - inspection during filling	GSO ISO 24431: 2021	SASO GSO ISO 24431:2022	43
it has no return	Optional specification	Gas cylinders — Service life testing for cylinders and tubes of composite construction	Permanent test - gas cylinders Composite gas tubes and cylinders	GSO ISO/TR 19811:2021	SASO GSO ISO/TR 19811: 2022	44
it has no return	Optional specification	Toughness of round steel link chains — specimens size-sub with Test	Durability of steel rings - test of sub-sized samples	GSO ISO/TR 21704:2021	SASO GSO ISO/TR 21704: 2022	45

2 (Gulf Technical Committee for Vehicles and Tires Specifications Sector (SC1 – TC2):)

The corresponding Saudi standard number to be withdrawn	Application adjective	Standard title	Standard title	Gulf Standard No.	The approved Saudi standard number	M
SASO ISO 500-1:2007	optional specification	Agricultural tractors — Rear mounted power take-off types 1, 2, 3 and 4 — Part 1: General specifications, safety requirements, dimensions for master shield and clearance zone	Agricultural tractors - power take-off shaft - (1, 2, 3, 4) for rear mounting types Part 1: Technical specifications, general safety requirements, dimensions for the main gear and clearance area	GSO ISO 500-1: 2021	SASO GSO ISO 500-1:2022	1
SASO ISO 500-3:2007	optional specification	— Agricultural tractors Rear-mounted power take-off types 1, 2, 3 and 4 — Part 3: Main PTO dimensions and spline dimensions, location of PTO	Agricultural Tractors - Rear-mounted power take-off of types (1, 2, 3 and 4 -) Part 3: Main power take-off shaft dimensions, notched connection and shaft positioning	GSO ISO 500-3: 2021	SASO GSO ISO 500-3:2022	2
SASO ISO 3006:2020	optional specification	Road vehicles — Passenger car wheels for road use — Test methods	Passengers Wheeled Car - Vehicles For road use - test methods	GSO ISO 3006: 2021	SASO GSO ISO 3006:2022	3
SASO ISO 3537:2015	optional specification	Road vehicles — Safety glazing materials — Mechanical tests	Safety Glass Materials Roads Vehicles Mechanical tests	GSO ISO 3537: 2021	SASO GSO ISO 3537:2022	4
it has no return	Optional specification	Tractors, machinery for agriculture and forestry, powered lawn and garden equipment — Symbols for operator controls and other displays — Part 3: Symbols for powered lawn and garden equipment	Agricultural Tractors, Forestry Machines, Lawn Harvester, and Garden Equipment - Operator Controls Codes and Other Displays - Part 3: Garden Equipment and Weeder Symbols	GSO ISO 3767-3:2021 SASO GSO ISO 3767-3:2022 5		

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Mandatory and optional Saudi standards approved in the meeting of the Board of Directors of the Authority No. (187) Held on 10/03/1444 AH.. Continued

The corresponding Saudi standard number to be withdrawn	Application adjective	Standard title	Standard title	Gulf Standard No.	The approved Saudi standard number	M
it has no return	Optional specification	Tractors, machinery for agriculture and forestry, powered lawn and garden equipment — Symbols for operator controls and other displays — Part 4: Symbols for forestry machinery	Agricultural Tractors, Forestry Machines, Lawn Harvester, Garden Equipment - Operator's Controls Codes and Other Displays - Part 4: Forestry Machines Codes	GSO ISO 3767-4:2021	SASO GSO ISO 3767-4:2022	6
it has no return	Optional specification	Tractors, machinery for agriculture and forestry, powered lawn and garden equipment — Symbols for operator controls and other displays — Part 5: Symbols for manual portable forestry machines	Agricultural tractors, forestry machines, weed harvesters and garden equipment - symbols for operator controls and other displays - Part 5: symbols for portable forestry machines	GSO ISO 3767-5:2021	SASO GSO ISO 3767-5:2022	7
SASO GSO ISO 3894:2015	optional specification	Road vehicles — Wheels/rims for commercial vehicles — Test methods	For vehicles, collars and wheels - cars Commercial - Test Methods	GSO ISO 3894: 2021	SASO GSO ISO 3894:2022	8
SASO ISO 3917:2017	optional specification	Road vehicles — Safety glazing materials — Test methods for resistance to radiation, high temperature, humidity, fire and simulated weathering	Road vehicles - safety glass materials - test methods for resistance to radiation, heat, humidity, fire and weather changes	GSO ISO 3917: 2021	SASO GSO ISO 3917:2022	9
SASO ISO 4000-2:2020	optional specification	Passenger car tyres and rims — Part 2: Rims	Part - Passenger Car and Tire Rims The second: the rims	GSO ISO 4000-2:2021	SASO GSO ISO 4000-2:2022	10
SASO ISO 4106:2014	optional specification	Motorcycles — Engine test code — Net power	-motorcycle test drive icon -motorcycles net capacity	GSO ISO 4106: 2021	SASO GSO ISO 4106:2022	11
SASO ISO 4250-2:2020	optional specification	Earth-mover tyres and rims — Part 2: Loads and inflation pressures	- Road works equipment and tire collars Part 2: Tire inflation loads and pressures	GSO ISO 4250-2:2021	SASO GSO ISO 4250-2:2022	12
it has no return	Optional specification	Methods of test for full-flow lubricating oil filters for internal combustion engines — Part 14: Cold start simulation and hydraulic pulse durability for composite filter housings	Test methods for full-flow lubricating internal combustion engine oil filters - Part Fourteen: Simulation of cold start and hydraulic pulsation of the composite filter housing	GSO ISO 4548-14:2021	SASO GSO ISO 4548-14:2022	13
SASO ISO 6699:2008	optional specification	Cycles - Handlebar centre and stem dimensions	Steering arm dimensions - pneumatic bikes (handlebar) and metal stem	GSO ISO 6699: 2021	SASO GSO ISO 6699:2022	14
it has no return	Optional specification	-Cycles — Lighting and retro :reflective devices — Part 3 Installation and use of lighting and retro-reflective devices	Bicycles - lighting and rear reflective devices - part three: installation And the use of lighting and back-reflecting devices	GSO ISO 6742-3:2021	SASO GSO ISO 6742-3:2022	15
it has no return	Optional specification	-Cycles — Lighting and retro :reflective devices — Part 4 Lighting systems powered by the cycle›s movement	Bicycles - Rear lights and reflective devices - Part 4: Lighting systems that work with the movement of the bicycle	GSO ISO 6742-4:2021	SASO GSO ISO 6742-4:2022	16
it has no return	Optional specification	-Cycles — Lighting and retro :reflective devices — Part 5 Lighting systems not powered by the cycle›s movement	Bicycles - lighting and rear reflective devices - Part Five: Lighting systems that do not work with the movement of the bicycle	GSO ISO 6742-5:2021	SASO GSO ISO 6742-5:2022	17
SASO ISO 10571:2019	optional specification	Tyres for mobile cranes and similar specialized machines	Mobile machinery cranes tires Similar specialist	GSO ISO 10571:2021	SASO GSO ISO 10571:2022	18
SASO ISO 12103-1:2020	optional specification	Road vehicles — Test contami nants for filter evaluation — Part 1: Arizona test dust	Candidate Assessment Test - Road Vehicles For contaminants - Part 1): Arizona for dust testing	GSO ISO 12103-1:2021	SASO GSO ISO 12103-1:2022	19
it has no return	Optional specification	Road vehicles — Compressed gaseous hydrogen (CGH2) and hydrogen/natural gas blends fuel system components — Part 6: Automatic valve	Road vehicles - compressed hydrogen gas (CGH2) and hydrogen gas / fuel system components for a natural gas mixture - part 6: automatic valve	GSO ISO 12619-6:2021	SASO GSO ISO 12619-6:2022	20
it has no return	Optional specification	Cycles — Audible warning devices — Technical specification and test methods	- Audible warning devices - Bicycles Technical specifications and test methods	GSO ISO 14878:2021	SASO GSO ISO 14878:2022	21

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Mandatory and optional Saudi standards approved in the meeting of the Board of Directors of the Authority No. (187) Held on 10/03/1444 AH.. Continued

The corresponding Saudi standard number to be withdrawn	Application adjective	Standard title	Standard title	Gulf Standard No.	The approved Saudi standard number	M
SASO ISO 15500-1:2020	optional specification	Road vehicles — Compressed natural gas (CNG) fuel system components — Part 1: General requirements and definitions	Road vehicles - CNG fuel system components - Part 1: General requirements and definitions	GSO ISO 15500-1:2021	SASO GSO ISO 15500-1:2022	22
SASO ISO 15500-7:2020	optional specification	Road vehicles — Compressed natural gas (CNG) fuel system components — Part 7: Gas injector	Gas Fuel System Components - Road Vehicles Compressed natural - part 7: gas injector	GSO ISO 15500-7:2021	SASO GSO ISO 15500-7:2022	23
SASO ISO 15500-8:2020	optional specification	Road vehicles — Compressed natural gas (CNG) fuel system components — Part 8: Pressure indicator	Road vehicles - CNG fuel system components - Part 8: Pressure indicator	GSO ISO 15500-8:2021	SASO GSO ISO 15500-8:2022	24
SASO ISO 15500-10:2020	optional specification	Road vehicles — Compressed natural gas (CNG) fuel system components — Part 10: Gas-flow adjuster	Road vehicles - CNG fuel system components - Part 10: Gas Flow Controller	GSO ISO 15500-10:2021	SASO GSO ISO 15500-10:2022	25
SASO ISO 15500-11:2020	optional specification	Road vehicles — Compressed natural gas (CNG) fuel system components — Part 11: Gas/air mixer	Road vehicles - Components of a compressed natural gas fuel system - Part 11: Gas-Air mixer	GSO ISO 15500-11:2021	SASO GSO ISO 15500-11:2022	26
SASO ISO 15500-12:2020	optional specification	Road vehicles — Compressed natural gas (CNG) fuel system components — Part 12: Pressure relief valve (PRV)	Road vehicles - CNG fuel system components - Part 12: Pressure relief valve	GSO ISO 15500-12:2021	SASO GSO ISO 15500-12:2022	27
SASO ISO 15500-15:2020	optional specification	Road vehicles — Compressed natural gas (CNG) fuel system components — Part 15: Gas-tight housing and ventilation hose	Road vehicles - Components of a compressed natural gas fuel system - Part 15: Leak-tight housing and ventilation hose	GSO ISO 15500-15:2021	SASO GSO ISO 15500-15:2022	28
SASO ISO 17464:2019	optional specification	Pneumatic tubes for automotive vehicles — Technical requirements and test methods	- Pneumatically fill the inner wheel tyre Technical requirements and test methods	GSO ISO 17464:2021	SASO GSO ISO 17464:2022	29
it has no return	Optional specification	Electrically propelled mopeds and motorcycles — Test specifications and safety requirements for lithium-ion battery systems	Induction motors for motorcycles and scooters - Test specifications and safety requirements for lithium-ion battery systems	GSO ISO 18243:2021	SASO GSO ISO 18243:2022	30
it has no return	Optional specification	Road vehicles — Determination of resistance to forced entry of security glass constructions used in vehicle glazing — Test of glazing systems	Road vehicles - Determination of the internal resistance of safety glass structures used in automotive windshields - Automotive windshield testing systems	GSO ISO 23013:2021	SASO GSO ISO 23013:2022	31
it has no return	Optional specification	ELECTRONIC STABILITY SYSTEMS CONTROL	Vehicles balance in electronic control	GSO ECE 8:2021	SASO GSO ECE 8:2022	32
it has no return	Optional specification	UNIFORM PROVISIONS CONCERNING THE APPROVAL OF MOPEDS EQUIPPED WITH A POSITIVE-IGNITION ENGINE WITH REGARD TO THE EMISSION OF GASEOUS POLLUTANTS BY THE ENGINE	Uniform provisions relating to the approval of small motorcycles equipped with a positive combustion engine in relation to exhaust gas emissions.	GSO ECE 47:2021	SASO GSO ECE 47:2022	33
SASO ECE 60:2012	optional specification	Uniform provisions concerning the approval of two-wheeled motor cycles and mopeds with regard to driver-operated controls including the identification of controls, tell-tales and indicators	Uniform provisions relating to the approval of two-wheeled motorcycles in relation to driver-operated controls include the designation of controls, warnings and indicators	GSO ECE 60:2021	SASO GSO ECE 60:2022	34
SASO ECE 63:2012	optional specification	Uniform provisions concerning the approval of two-wheeled mopeds with regard to noise	Uniform provisions relating to the approval of small-engine two-wheeled motorcycles in relation to noise	GSO ECE 63:2021	SASO GSO ECE 63:2022	35

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Mandatory and optional Saudi standards approved in the meeting of the Board of Directors of the Authority No. (187) Held on 10/03/1444 AH.. Continued

The corresponding Saudi standard number to be withdrawn	Application adjective	Standard title	Standard title	Gulf Standard No.	The approved Saudi standard number	M
it has no return	Optional specification	UNIFORM PROVISIONS CONCERNING THE APPROVAL OF CATEGORY L1 VEHICLES WITH REGARD TO THE INSTALLATION OF LIGHTING -AND LIGHT SIGNALLING DEVICES	Uniform provisions relating to the approval of Class L1 vehicles in connection with the installation of light bulbs and signaling devices.	GSO ECE 74:2021	SASO GSO ECE 74:2022	36
SASO ECE 76:2012	optional specification	UNIFORM PROVISIONS CONCERNING THE APPROVAL OF HEADLAMPS FOR MOPEDS EMITTING A DRIVING BEAM AND A PASSING BEAM	Uniform provisions relating to the approval of headlights for small motorcycles in relation to the driving beam and overtaking beam.	GSO ECE 76:2021	SASO GSO ECE 76:2022	37
it has no return	Optional specification	Strength of seats and their (buses (anchorages	(Buses) and their fixings. Seats are durable	GSO ECE 80:2021	SASO GSO ECE 80:2022	38
it has no return	Optional specification	Uniform provisions concerning the approval of internal combustion engines or electric drive trains intended for the propulsion of motor vehicles of categories M and N with regard to the measurement of the net power and the maximum 30 minutes power of electric drive trains	Uniform provisions on the approval of vehicles powered by internal combustion engines or electric motors to operate Vehicles Classes M and N Regarding the measurement of the total power and the maximum power for a 30-minute working period of the electric motor	GSO ECE 85:2021	SASO GSO ECE 85:2022	39
it has no return	Optional specification	Uniform provisions concerning the approval of vehicles with regard to specific requirements for the electric power train	Uniform provisions relating to vehicle approval for electric powertrains.	GSO ECE 100:2021	SASO GSO ECE 100:2022	40
it has no return	Optional specification	Uniform provisions concerning the approval of passenger cars powered by an internal combustion engine only, or powered by a hybrid electric power train with regard to the measurement of the emission of carbon dioxide and fuel consumption and/or the measurement of electric energy consumption and electric range, and of categories M1 and N1 vehicles powered by an electric power train only with regard to the measurement of electric energy consumption and electric range	Uniform provisions on the approval of passenger cars powered by an internal combustion engine only, or electric hybrids with respect to the measurement of carbon dioxide emissions, fuel consumption and/or electrical measurement of energy consumption and electrical range, as well as the measurement of electrical energy consumption and electrical range of vehicles of classes M1 and N1 which Powered by electric power only	GSO ECE 101:2021	SASO GSO ECE 101:2022	41
it has no return	Optional specification	UNIFORM PROVISIONS CONCERNING THE APPROVAL OF WHEELS FOR PASSENGER CARS AND THEIR TRAILERS	Adoption of the standard provisions Wheels for passenger cars and trailers	GSO ECE 124:2021	SASO GSO ECE 124:2022	42
it has no return	Optional specification	Standard Test Method for Area Defined: Navigation	Vehicles in Navigation Road Testing System Industrial Automation - Specific Area	GSO ASTM F3244:2021	SASO GSO ASTM F3244:2022	43
versus her not	optional specification	Standard Test Method for Grid Video Obstacle Measurement	Obstacle pictures measure test methods Network for industrial motor vehicles	GSO ASTM F3265:2021	SASO GSO ASTM F3265:2022	44

3 (The Gulf Technical Committee for the Electrical and Electronic Specifications Sector (TC3):)

The corresponding Saudi standard number to be withdrawn	Application adjective (optional/mandatory)	Standard title (English)	Standard Title (Arabic)	Gulf Standard No.	The approved Saudi standard number	M
it has no return	Optional specification	Surface cleaning appliances - Part 6: Wet hard floor cleaning appliances for household or similar use - Methods for measuring the performance	Surface cleaning devices - Part 6: Wet hard floor cleaning equipment for domestic or similar use - Methods for measuring performance	GSO IEC/ASTM 62885-6:2021	SASO GSO IEC/ASTM 62885-6:2022	1
it has no return	Optional specification	Miniature fuses - Part 8: Fuse resistors protection overcurrent particular with	Resistors: 8 segment - small fuses Fuses with overcurrent protection	GSO IEC 60127-8:2021	SASO GSO IEC 60127-8: 2022	2

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Mandatory and optional Saudi standards approved in the meeting of the Board of Directors of the Authority No. (187) Held on 10/03/1444 AH.. Continued

The corresponding Saudi standard number to be withdrawn	Application adjective (optional/mandatory)	Standard title (English)	Standard Title (Arabic)	Gulf Standard No.	The approved Saudi standard number	M
it has no return	Optional specification	Mechanical structures for electrical and electronic equipment - Dimensions of mechanical structures of the 482,6 :mm (19 in) series - Part 3-109 Dimensions of chassis for embedded computing devices	Mechanical Structures for Electrical and Electronic Appliances - Dimensions of the Mechanical Structure Series - 482.6 mm (19 inch) Size Part 109-3: Chassis dimensions for devices using embedded computers	GSO IEC 60297-3-109:2021	SASO GSO IEC 60297-3-109:2022	3
it has no return	Optional specification	Specifications for particular types of winding wires - Part 0-10: General requirements - Polyester glass-fibre wound fused, unvarnished, or resin or varnish impregnated, bare or enamelled round copper wire	Winding wire Standards for special types - Part 0-10: General requirements - Fusing coiled, uncoated, rubber or enriched varnish, stripped or coated around copper wire	GSO IEC 60317-0-10:2021	SASO GSO IEC 60317-0-10:2022	4
it has no return	Optional specification	Specifications for particular types of winding wires - Part 73: Polyester or polyesterimide overcoated with polyamide-imide enamelled rectangular aluminium wire, class 200	Wire specifications for certain types of winding - Part 73: polyester or polyamide coated with aluminum rectangular wire of Category polyamide-imide, 200	GSO IEC 60317-73:2021	SASO GSO IEC 60317-73: 2022	5
it has no return	Optional specification	Specifications for particular types of winding wires - Part 74: Polyesterimide enamelled rectangular aluminium wire, class 180	Specification wires for certain types of winding - Part 74: Polyester enameled rectangular aluminum wire, Class 180	GSO IEC 60317-74:2021	SASO GSO IEC 60317-74: 2022	6
it has no return	Optional specification	Connectors for electrical and electronic equipment - Tests and measurements - Part 28-100: Signal integrity tests up to 2 000 MHz - Tests 28a to 28g	Connections to electrical and electronic equipment - Tests and measurements - Part 100-28: Signal integrity tests up to 2000 MHz - Tests from g28 to a28	GSO IEC 60512-28-100:2021	SASO GSO IEC 60512-28-100:2022	7
it has no return	Optional specification	Connectors for electronic equipment - Part 7-82: Detail specification for 8-way, 12 contacts, shielded, free and fixed connectors, for data transmission with frequencies up to 2 000 MHz	Interconnections for electronic equipment - Part 82-7: Detailed characteristics of the eight-way, 12-point, free-shielded, fixed-point connections for transmitting data at frequencies up to 2000 MHz	GSO IEC 60603-7-82:2021	SASO GSO IEC 60603-7-82:2022	8
it has no return	Optional specification	Live working - Terminology for tools, equipment and devices	Work under effort - terminology for tools, devices and equipment	2021:60743 IEC GSO	SASO GSO IEC 60743: 2022	9
it has no return	Optional specification	Semiconductor devices - Mechanical and climatic test methods - Part 44: Neutron beam irradiated single event effect (SEE) test method for semicon guide devices	Components of Semiconductors - Mechanical and Climatic Test Methods - 44 Parts: - Methods for Single Neutron Beam Impact Testing (SEE) on semiconductor components	GSO IEC 60749-44:2021	SASO GSO IEC 60749-44: 2022	10
it has no return	Optional specification	Optical fibre cables - Part 1-22: Generic specification - Basic optical cable test procedures - Environmental test methods	Optical fiber cables - Part 1-22: General standards - Basic test procedures for optical cables - Environmental test methods	GSO IEC 60794-1-22:2021	SASO GSO IEC 60794-1-22:2022	11
Ours IEC-61000-6-3:2018	optional specification	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for equipment in residential environments	Electromagnetic compatibility - Part 3-6: General specifications - Specification Emissions in housing, commerce, and light industries	GSO IEC 61000-6-3:2021	SASO GSO IEC 61000-6-3:2022	12
SASO IEC 61076-3-120	optional specification	Connectors for electronic equipment - Product requirements - Part 3-120: Rectangular connectors - Detail specification for rewirable power connectors with snap locking for rated voltage of 250 V d.c. and rated current of 30 A	Connectors for electronic equipment - product requirements - part 3-120: Rectangular Conductors - Detailed Characteristics of Quick Close Replaceable Wired Power Connectors of Rated Voltage 250 V dc and Current A 30 Legislature	GSO IEC 61076-3-120:2021	SASO GSO IEC 61076-3-120:2022	13
it has no return	Optional specification	Radio-frequency connectors - Part 58: Sectional specification for RF coaxial connectors with blind-mate coupling - Characteristic impedance 50 ÿ)type SBMA(	Radio Frequency Links - Part 58: Sector standards for RF coaxial jumpers with hidden jumper - 50 ohm composite impedance characteristics (SBMA model)	GSO IEC 61169-58:2021	SASO GSO IEC 61169-58: 2022	14

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The corresponding Saudi standard number to be withdrawn	Application adjective (optional/mandatory)	Standard title (English)	Standard Title (Arabic)	Gulf Standard No.	The approved Saudi standard number	M
it has no return	Optional specification	Test methods for electrical materials, printed board and other interconnection structures and assemblies - Part 2-630: Test methods for materials for interconnection structures - Moisture absorption after pressure vessel conditioning	Test methods for electrical materials, printed board, interface structures and other assemblies - Part 630-2: Methods of testing materials for interconnecting structures - moisture absorption after conditioning pressure vessels	GSO IEC 61189-2-630:2021	SASO GSO IEC 61189-2-630:2022	15
it has no return	Optional specification	Coaxial communication cables - Part 1-209: Environmental test methods - Thermal cycling	Communication coaxial cables - Part 1-209: Environmental Test Methods - Heat Cycles	GSO IEC 61196-1-209:2021	SASO GSO IEC 61196-1-209:2022	16
it has no return	Optional specification	Coaxial communication cables - Part 1-215: Environmental test methods - High temperature cable ageing	Communication coaxial cables - Part 1-215: Environmental Test Methods - Aging due to high temperature	GSO IEC 61196-1-215:2021	SASO GSO IEC 61196-1-215:2022	17
it has no return	Optional specification	Coaxial communication cables - Part 1-316: Mechanical test methods - Test of maximum pulling force of cable	Communication coaxial cables - Part 316-1: Mechanical Test Methods - Maximum cable pull test	GSO IEC 61196-1-316:2021	SASO GSO IEC 61196-1-316:2022	18
it has no return	Optional specification	:Lamp controlgear - Part 2-14 Particular requirements for DC and/or AC supplied electronic controlgear for fluorescent induction lamps	Lamp control unit - Part 2-14: Special requirements for an AC and/or alternating current (AC/DC) electronic control unit For inductive fluorescent lamps	GSO IEC 61347-2-14:2021	SASO GSO IEC 61347-2-14:2022	19
it has no return	Optional specification	Liquid crystal display devices - Part 20-2: Visual inspection - Monochrome matrix liquid crystal display modules (excluding all active matrix liquid)crystal display modules	Liquid Crystal Display - Part 2-20: Visual Inspection - Monochrome Matrix Liquid Crystal Display Units (except for all active LCD units)	GSO IEC 61747-20-2:2021	SASO GSO IEC 61747-20-2:2022	20
it has no return	Optional specification	Liquid crystal display devices - Part 30-1: Measuring methods for liquid - crystal display modules Transmissive type	Liquid crystal displays - Part 1-30: Methods of measuring units for liquid crystal displays - carrier type	GSO IEC 61747-30-1:2021	SASO GSO IEC 61747-30-1:2022	21
it has no return	Optional specification	Liquid crystal display devices - Part 30-3: Measuring methods for liquid crystal display modules - Motion artefact measurement of active matrix liquid crystal display modules	Liquid Crystal Display Devices - Part 3-30: Methods for Measurement of Liquid Crystal Display Units - Motion Measurement of Active Matrix Liquid Crystal Display Units	GSO IEC 61747-30-3:2021	SASO GSO IEC 61747-30-3:2022	22
it has no return	Optional specification	Liquid crystal display devices - Part 30-4: Measuring methods for liquid crystal display modules - Dynamic backlight units	Liquid crystal display devices - Part 4-30: Methods for measuring units for LCD units - Dynamic backlight units	GSO IEC 61747-30-4:2021	SASO GSO IEC 61747-30-4:2022	23
it has no return	Optional specification	:Superconductivity - Part 24 - Critical current measurement Retained critical current after double bending at room temperature of Ag-sheathed Bi-2223 superconducting wires	Superconductivity - Part 24: Measurement of critical current - critical current for silver-coated superconducting wires 2223 Bi after double bending at room temperature	GSO IEC 61788-24:2021	SASO GSO IEC 61788-24: 2022	24
it has no return	Optional specification	Adjustable speed electrical power drive systems - Part 9-1: Ecodesign for power drive systems, motor starters, power electronics and their driven applications - General requirements for setting energy efficiency standards for power driven equipment using the extended product approach (EPA) and semi analytic model (SAM)	Adjustable Speed Electric Power Transmission Systems - Part 9-1: Environmental design of powertrains + starter motors + high power electronics and their applications - general requirements for setting energy efficiency standards for powertrains using a method (EPA) and Semi-Analytic Model (SAM)	GSO IEC 61800-9-1:2021	SASO GSO IEC 61800-9-1:2022	25
it has no return	Optional specification	Integrated circuits - EMC evaluation of transceivers LIN: 2 Part - transceivers	Integrated Circuits - Evaluation of Electromagnetic Compatibility (EMC) For receivers and transmitters - Part 2: Local interconnection networks for transmitters and receivers	GSO IEC 62228-2:2021	SASO GSO IEC 62228-2: 2022	26

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The corresponding Saudi standard number to be withdrawn	Application adjective (optional/mandatory)	Standard title (English)	Standard Title (Arabic)	Gulf Standard No.	The approved Saudi standard number	M
SASO IEC 62386-207:2010	optional specification	Digital addressable lighting interface - Part 207: Particular requirements for control gear - LED modules (device type 6)	Addressable digital interface for lighting control - Part 207: Special Requirements for Controller - LED Modules (Device Type 6)	GSO IEC 62386-207:2021	SASO GSO IEC 62386-207:2022	27
it has no return	Optional specification	Digital addressable lighting interface - Part 301: Particular requirements - Input devices - Push buttons	Addressable digital interface for lighting control - Part 301: Special requirements - Input devices - Pressure switches	GSO IEC 62386-301:2021	SASO GSO IEC 62386-301:2022	28
it has no return	Optional specification	Electronic components - Long-term storage of electronic semiconductor devices - Part 4: Storage	Electronic components - Long-term storage of semiconductor electronic devices - Part 4: Storage	GSO IEC 62435-4:2021	SASO GSO IEC 62435-4: 2022	29
it has no return	Optional specification	Security for industrial automation and control systems - Part 4-1: Secure product development lifecycle requirements	Security of industrial automation and control systems - Part 1.4: Safe product development lifecycle requirements	GSO IEC 62443-4-1:2021	SASO GSO IEC 62443-4-1:2022	30
SASO IEC 62595-2-1:2020	optional specification	Display lighting unit - Part 2-1: Electro optical measuring methods of LED backlight unit	Photovoltaic Test Methods for LED Backlighting Modules	GSO IEC 62595-2-1:2021	SASO GSO IEC 62595-2-1:2022	31
it has no return	Optional specification	:Display lighting unit - Part 2-2 Measuring methods of LED light bars used in LCD BLUs	Illuminated Display Units - Part 2-2: Methods of measuring light-emitting diode (LED) light bars. used in LCD units Liquid (LCD BLUs)	GSO IEC 62595-2-2:2021	SASO GSO IEC 62595-2-2:2022	32
it has no return	Optional specification	3D Display devices - Part 13-1: Visual inspection methods for stereoscopic displays using glasses - Ghost image	3D Displays - Part 1-1: Methods for Visual Examination of Holographic Screens Using Glasses - Spectral Image	GSO IEC 62629-13-1:2021	SASO GSO IEC 62629-13-1:2022	33
it has no return	Optional specification	Heat-shrinkable low and medium voltage moulded shapes - Part 3: Specification for individual materials - Sheet 101: Heat-shrinkable, polyolefin moulded shapes for low voltage applications	Medium and Low Voltage Heat Shrinkable Molded Profiles - Part 3: Individual Material Specifications - Sheet 101: Polyolefin Heat Shrinkable Molded Profiles for Low Voltage Applications	GSO IEC 62677-3-101:2021	SASO GSO IEC 62677-3-101:2022	34
it has no return	Optional specification	Electronic paper displays - Part 3-1: methods measuring Optical	Electronic paper displays - Part 1.3: Optical measurement methods	GSO IEC 62679-3-1:2021	SASO GSO IEC 62679-3-1:2022	35
it has no return	Optional specification	Electronic paper display - Part 3-2: optical-Electro - method Measuring	Electronic paper displays - Part 2-3: Photoelectric measurement methods	GSO IEC 62679-3-2:2021	SASO GSO IEC 62679-3-2:2022	36
it has no return	Optional specification	Electronic paper displays - Part 3-3: Optical measuring methods for displays with integrated lighting units	Electronic paper displays - Part 3.3: Optical measurement methods for displays with integrated lighting units	GSO IEC 62679-3-3:2021	SASO GSO IEC 62679-3-3:2022	37
it has no return	Optional specification	Electronic paper displays - Part 4-2: methods test Environmental	Electronic paper screens - Part 2-4: Environmental test methods	GSO IEC 62679-4-2:2021	SASO GSO IEC 62679-4-2:2022	38
it has no return	Optional specification	Text-to-speech for television - General requirements	Text to Speech for TVs - General Requirements	2021:62731 IEC GSO	SASO GSO IEC 62731: 2022	39
it has no return	Optional specification	Safety of machinery - Requirements for cableless control systems of machinery	Machine safety - requirements for wiring systems for machinery control without	2021:62745 IEC GSO	SASO GSO IEC 62745: 2022	40
it has no return	Optional specification	- Semiconductor devices Semiconductor interface for human body communication - Part 1: General requirements	Semiconductor components - semiconductor link to connect the human body - Part 1: General requirements	GSO IEC 62779-1:2021	SASO GSO IEC 62779-1: 2022	41
it has no return	Optional specification	- Semiconductor devices Semiconductor interface for human :body communication - Part 2 Characterization of interfacing performances	Semiconductor Components - Semiconductor Connection for Communication with the Human Body - Part 2: Conduction Performance Description	GSO IEC 62779-2:2021	SASO GSO IEC 62779-2: 2022	42

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The corresponding Saudi standard number to be withdrawn	Application adjective (optional/mandatory)	Standard title (English)	Standard Title (Arabic)	Gulf Standard No.	The approved Saudi standard number	M
it has no return	Optional specification	- Semiconductor devices Semiconductor interface for human body communication - Part 3: Functional type and its operational conditions	Semiconductor components - the semiconductor link for connection with the human body - Part 3: Type of function and its operating conditions	GSO IEC 62779-3:2021	SASO GSO IEC 62779-3: 2022	43
it has no return	Optional specification	- Electric welding equipment Assessment of restrictions related to human exposure to electromagnetic :fields (0 Hz to 300 GHz) - Part 1 Product family standard	Electric Welding Equipment - Assessment of Limitations Related to Human Exposure to Electromagnetic Fields (0 Hz to 300 GHz) - Part 1: Product Family Specification	GSO IEC 62822-1:2021	SASO GSO IEC 62822-1: 2022	44
it has no return	Optional specification	- Electric welding equipment Assessment of restrictions related to human exposure to electromagnetic fields (0 Hz to 300 GHz) - Part 2: Arc welding equipment	Electric Welding Equipment - Assessment of Constraints Related to Human Exposure to Electromagnetic Fields (0 Hz to 300 GHz) - Part 2: Arc Welding Equipment	GSO IEC 62822-2:2021	SASO GSO IEC 62822-2: 2022	45
it has no return	Optional specification	- Wireless power transfer Management - Part 2: Multiple device control management	Part 2: Management - Wireless Power Transfer Control management for multiple devices	GSO IEC 62827-2:2021	SASO GSO IEC 62827-2: 2022	46
it has no return	Optional specification	- Semiconductor devices Semiconductor devices for energy harvesting and generation - Part 1: Vibration based piezoelectric energy harvesting	Semiconductor devices for energy generation and collection - Part 1: Collecting piezoelectric energy from vibration	GSO IEC 62830-1:2021	SASO GSO IEC 62830-1: 2022	47
it has no return	Optional specification	- Semiconductor devices Semiconductor devices for energy :harvesting and generation - Part 3 Vibration based electromagnetic energy harvesting	Semiconductor devices - Semiconductor devices for generating and collecting energy - Part 3: Collecting electromagnetic energy from vibration	GSO IEC 62830-3:2021	SASO GSO IEC 62830-3: 2022	48
it has no return	Optional specification	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-1: Particular requirements for hand-held drills and impact drills	Hand-held, electric-motorized and portable tools, lawn and garden machinery - Safety - Part 2-1: Special requirements for hand-held and impact drills	GSO IEC 62841-2-1:2021	SASO GSO IEC 62841-2-1:2022	49
it has no return	Optional specification	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-8: Particular requirements for hand-held shears and nibblers	Electric Motorized Hand Tools, Portable Tools, Garden Machines and Herbs - Safety - Part 2-8: Special requirements for manual scissors and nippers	GSO IEC 62841-2-8:2021	SASO GSO IEC 62841-2-8:2022	50
it has no return	Optional specification	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-11: Particular requirements for hand-held reciprocating saws	Hand-held, electric-motorized and portable tools, lawn and garden machinery - Safety - Part 2-11: Special requirements for portable reciprocating saw	GSO IEC 62841-2-11:2021	SASO GSO IEC 62841-2-11:2022	51
it has no return	Optional specification	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-21: Particular requirements for hand-held drain cleaners	Hand-held, electric-motorized and portable tools, lawn and garden machinery - Safety - Part 2-21: Special requirements for hand-held drain cleaners	GSO IEC 62841-2-21:2021	SASO GSO IEC 62841-2-21:2022	52
it has no return	Optional specification	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-4: Particular requirements for transportable bench grinders	Electric Motorized Hand Tools, Portable Tools, Garden Machines and Herbs - Safety - Part 3-4: Special requirements for removable dentures	GSO IEC 62841-3-4:2021	SASO GSO IEC 62841-3-4:2022	53
it has no return	Optional specification	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-14: Particular requirements for transportable drain cleaners	Motorized hand-held power tools and lawn and lawn trimmers - Safety - Part 3-14: Requirements for portable drainpipe cleaning devices	GSO IEC 62841-3-14:2021	SASO GSO IEC 62841-3-14:2022	54
it has no return	Optional specification	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 4-2: Particular requirements for hedge trimmers	Hand-held electric motor-powered power tools and lawn and lawn trimmers - Safety - Part 4.2: Special Requirements for Trimmers	GSO IEC 62841-4-2:2021	SASO GSO IEC 62841-4-2:2022	55

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The corresponding Saudi standard number to be withdrawn	Application adjective (optional/mandatory)	Standard title (English)	Standard Title (Arabic)	Gulf Standard No.	The approved Saudi standard number	M
it has no return	Optional specification	Railway applications - Rolling stock - Electrical connectors - Requirements and test methods	Railway locomotives - railway wagons - electrical conductors - requirements and test methods	GSO IEC 62847:2021	SASO GSO IEC 62847: 2022	56
it has no return	Optional specification	Performance evaluation methods of robots household mobile	Methods for evaluating the performance of home robots mobile	2021:62849 IEC GSO	SASO GSO IEC 62849: 2022	57
it has no return	Optional specification	dependability systems Open	Open Systems Reliability	2021:62853 IEC GSO	SASO GSO IEC 62853: 2022	58
it has no return	Optional specification	Residual current operated circuit breakers for household and similar use - Part 2: Residual current devices (RCDs) - Vocabulary	Residual Current Circuit Breakers for Domestic and Similar Use - Part 2: Residual Current Devices (RCDs - Terminology)	GSO IEC 62873-2:2021	SASO GSO IEC 62873-2: 2022	59
it has no return	Optional specification	Residual current operated circuit breakers for household and similar use - Part 3-3: Specific requirements for RCDs with screw-type terminals for external untreated aluminium conductors and with aluminium screw type terminals for use with copper or with aluminium conductors	Residual current circuit breakers for domestic and similar use - Part 3.3: Special requirements for residual current equipment (RCDs) Threaded terminals for untreated external aluminum conductors and aluminum threaded terminals for use with copper or aluminum conductors	GSO IEC 62873-3-3:2021	SASO GSO IEC 62873-3-3:2022	60
it has no return	Optional specification	Electrolyte and water for vented lead :acid accumulators - Part 1 requirements for electrolyte	Electrolytes and water for self-venting lead-acid batteries - Part (1): Electrolyte requirements	GSO IEC 62877-1:2021	SASO GSO IEC 62877-1: 2022	61
it has no return	Optional specification	Electrolyte and water for vented lead :acid accumulators - Part 2 Requirements for water	Electrolyte and water for electrodes of self-venting lead-acid batteries - Part 2 Water requirements:	GSO IEC 62877-2:2021	SASO GSO IEC 62877-2: 2022	62
it has no return	Optional specification	:Laser display devices - Part 5-2 Optical measuring methods of speckle contrast	Laser Display Devices (LDD -) Part 2-5: Optical testing methods for speckle contrast	GSO IEC 62906-5-2:2021	SASO GSO IEC 62906-5-2:2022	63
it has no return	Optional specification	Laser display devices - Part 5-4: Optical measuring methods of colour speckle	Laser Projectors - Part 5-4: Optical color spot measurement methods	GSO IEC 62906-5-4:2021	SASO GSO IEC 62906-5-4:2022	64
it has no return	Optional specification	Maritime navigation and radiocom munication equipment and systems - Bridge alert management - Part 1: Operational and performance requirements, methods of testing and required test results	Marine radionavigation equipment and systems - bridge alarm management - part 1: operational and performance requirements, test methods and required test results	GSO IEC 62923-1:2021	SASO GSO IEC 62923-1: 2022	65
it has no return	Optional specification	Maritime navigation and radiocom munication equipment and systems - Bridge alert management - Part 2: Alert and cluster identifiers and other additional features	Marine radionavigation equipment and systems - Bridge alert management - Part 2: Limitations of alerts, clusters and other additional features	GSO IEC 62923-2:2021	SASO GSO IEC 62923-2: 2022	66
it has no return	Optional specification	Power sources for a wireless :communication device - Part 3 Generic energy harvesting adapter module	Power sources for wireless communication equipment - Part 3: General power collection link unit	GSO IEC 62952-3:2021	SASO GSO IEC 62952-3: 2022	67
it has no return	Optional specification	Residual direct current detecting device (RDC-DD) to be used for mode 3 charging of electric vehicles	Residual constant current (DD-RDC) detection device (for use in electric vehicle charging method	GSO IEC 62955:2021	SASO GSO IEC 62955: 2022	68
it has no return	Optional specification	Plugs, socket-outlets and couplers contacts arcuate with	Plugs, sockets and connectors with arc terminals	2021:62986 IEC GSO	SASO GSO IEC 62986: 2022	69
it has no return	Optional specification	Requirements for automatic reclosing devices (ARDs) for circuit breakers, RCBOs-RCCBs for household and similar uses	Requirements for automatic re-locking devices ARDs (for circuit breakers, for RCBOs-RCCBs . applications) household and the like	GSO IEC 63024:2021	SASO GSO IEC 63024: 2022	70
it has no return	Optional specification	Nanomanufacturing - Key control characteristics - Part 4-7: Nano enabled electrical energy storage - Determination of magnetic impurities in anode nanomaterials, ICP-OES method	Nanofabrication - Key Control Properties - Part 4-7: Energy Storage Electro-possible nano-Determination of magnetic impurities in anode nanomaterials, OES-ICP method.	GSO IEC TS 62607-4-7:2021	SASO GSO IEC TS 62607-4-7:2022	71

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it has no return	Optional specification	Transmitting equipment for radiocommunication - Radio-over fibre technologies for electromagnetic-field measurement - Part 1: Radio-over-fibre technologies for antenna measurement	Radiocommunication transmitters - Fiber radio transmission techniques for electromagnetic field measurement - Part 1: Fiber radio transmission techniques for antenna measurement	GSO IEC TR 63099-1:2021	SASO GSO IEC TR 63099-1:2022	72
it has no return	Optional specification	Transmitting equipment for radiocommunication - Radio-over-fibre technologies for spectrum measurement - 100-GHz spectrum measurement equipment	Radiocommunication transmitters - Fiber radio transmission technologies for electromagnetic field measurement - Frequency spectrometry equipment - GHz 100	GSO IEC TR 63100:2021	SASO GSO IEC TR 63100: 2022	73

4) The Gulf Technical Committee for the Construction and Building Materials Specifications Sector (TC6:)

The corresponding Saudi standard number to be withdrawn	Application adjective	Standard title	Standard title	Gulf Standard No.	The approved Saudi standard number	M
SASO ISO 12006-2:2016	optional specification	Building construction — Organization of information about construction works — Part 2: Framework for classification	Business Information Regulation - Buildings Construction Structure - Part 2: Structuring information classification	GSO ISO 12006-2:2021	SASO GSO ISO 12006-2:2022	1
SASO ISO 6707-2:2020	optional specification	Buildings and civil engineering works — Vocabulary — Part 2: Contract and communication terms	Building and civil engineering works Terminology - Part 2: Contract and communication terms	GSO ISO 6707-2:2021	SASO GSO ISO 6707-2:2022	2
it has no return	Optional specification	Buildings and civil engineering works — Vocabulary — Part 3: Sustainability terms	Buildings and civil engineering works Vocabulary - Part 3: Sustainability Terminology	GSO ISO 6707-3:2021	SASO GSO ISO 6707-3:2022	3
SASO ISO 9836:2014	optional specification	Performance standards in building — Definition and calculation of area and space indicators	Definition and calculation of buildings in performance criteria Area and Space Indicators	GSO ISO 9836: 2021	SASO GSO ISO 9836:2022	4
SASO ISO 10545-1:2016	optional specification	Ceramic tiles — Part 1: Sampling and basis for acceptance	Sampling: 1 part - ceramic tile The foundations of acceptance	GSO ISO 10545-1:2021	SASO GSO ISO 10545-1:2022	5
SASO ISO 12460-4:2015	optional specification	Wood-based panels — Determination of :formaldehyde release — Part 4 Desiccator method	Wood-based panels - Determination of formaldehyde emission - Part 4: Drying method	GSO ISO 12460-4:2021	SASO GSO ISO 12460-4:2022	6
SASO ISO 13006:2018	optional specification	,Ceramic tiles — Definitions classification, characteristics and marking	Classification and Definitions - Ceramic Tiles Features and statement card	GSO ISO 13006: 2021	SASO GSO ISO 13006:2022	7
SASO ISO 13007-1:2021	optional specification	Ceramic tiles — Grouts and adhesives — Part 1: Terms, definitions and specifications for adhesives	Ceramic tiles - grouts and adhesives - Part 1: Terminology, definitions and specifications for tile adhesives	GSO ISO 13007-1:2021	SASO GSO ISO 13007-1:2022	8
SASO ISO 13007-2:2014	optional specification	Ceramic tiles — Grouts and adhesives — Part 2: Test methods for adhesives	Ceramic tiles - Grouts and adhesives - Part 2: Methods of test for tile adhesives	GSO ISO 13007-2: 2021	GSO ISO 13007-2: 2022	9
SASO ISO 13007-5:2021	optional specification	Ceramic tiles — Grouts and adhesives — Part 5: Requirements, test methods, evaluation of conformity, classification and designation of liquid-applied waterproofing membranes for use beneath ceramic tiling bonded with adhesives	Ceramic tiles - grout and adhesives - Part 5: Requirements, methods for testing, conformity assessment, classification and designation of liquid waterproofing membranes for use under ceramic tiles in conjunction with adhesives.	GSO ISO 13007-5:2021	SASO GSO ISO 13007-5:2022 10	
SASO ISO 15686-7:2007	optional specification	Buildings and constructed assets — Service life planning — Part 7: Performance evaluation for feedback of service life data from practice	Constructed buildings and assets - life planning - part 7: performance assessment for feedback on life-life data from practice	GSO ISO 15686-7:2021	SASO GSO ISO 15686-7:2022 11	

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The corresponding Saudi standard number to be withdrawn	Application adjective	Standard title	Standard title	Gulf Standard No.	The approved Saudi standard number	M
SASO ISO 15928-1:2016	optional specification	Houses — Description of performance — Part 1: Structural safety	Safety: Part One - Performance Description - Houses construction	GSO ISO 15928-1:2021	SASO GSO ISO 15928-1:2022	12
SASO ISO 15928-2:2016	optional specification	Houses — Description of performance — Part 2: Structural serviceability	Part Two: Performance Description - Houses Structural features of service provision	GSO ISO 15928-2:2021	SASO GSO ISO 15928-2:2022	13
SASO ISO 15928-3:2016	optional specification	Houses — Description of performance — Part 3: Structural durability	DURABILITY: 3 PART - PERFORMANCE DESCRIPTION -HOMES construction	GSO ISO 15928-3:2021	SASO GSO ISO 15928-3:2022	14
it has no return	Optional specification	Data structures for electronic product catalogues for building services — Part 1: Concepts, architecture and model	Data structures for electronic product catalogs for building services - Part 1: Concepts, architecture and anthropomorphism	GSO ISO 16757-1:2021	SASO GSO ISO 16757-1:2022	15
Alternative to my specifications SASO 16893-1:2012 SASO 16893-2:2012	Optional specification	Particleboard — panels based-Wood	Panels - wooden base with panels wood grain	GSO ISO 16893: 2021	SASO GSO ISO 16893:2022	16
Alternative to my specifications SASO 16895-1:2012 SASO 16895-2:2012	Optional specification	Wood-based panels — Dry-process fibreboard	Board fibrous dry method	GSO ISO 16895: 2021	SASO GSO ISO 16895:2022	17
SASO ISO 17064:2006	optional specification	Wood-based panels — Fibreboard, particleboard and oriented strand board (OSB) — Vocabulary	Wood-based panels - fibreboard, particleboard and stranded board - Vocabulary	GSO ISO 17064: 2021	SASO GSO ISO 17064:2022	18
SASO ISO 18333:2005	optional specification	Pallets for materials handling — Quality of new wooden components for flat pallets	Pallets Material Handling and Loading - Quality of Components for New Wood Parts Used in Flat Pallets	GSO ISO 18333: 2021	SASO GSO ISO 18333:2022	19
SASO ISO 18613:2005	optional specification	Pallets for materials handling — Repair of flat wooden pallets	REPAIR - MATERIALS AND HANDLING Loading pallets flat wooden pallets	GSO ISO 18613: 2021	SASO GSO ISO 18613:2022	20
SASO ISO 21930:2011	optional specification	Sustainability in buildings and civil engineering works — Core rules for environmental product declarations of construction products and services	Sustainability in Buildings and Civil Engineering Works – Ground rules for environmental advertising of construction products and services	GSO ISO 21930: 2021	SASO GSO ISO 21930:2022	21
it has no return	Optional specification	Fire classification of construction products and building elements - Part 2: Classification using data from fire resistance tests, excluding ventilation services	Fire rating of building products and components - Part 2: Classification using data from fire resistance tests, excluding ventilation services	GSO EN 13501-2:2021	SASO GSO EN 13501-2:2022	22

5) Gulf Technical Committee for Standardization Sector and Equipment for Production, Transmission and Distribution of Electric Power (TC9)

The corresponding Saudi standard number to be withdrawn	Application adjective	Standard title	Standard title	Gulf Standard No.	The approved Saudi standard number	M
it has no return	Optional specification	Rotating electrical machines - Part 4-1: Methods for determining electrically excited synchronous machine quantities from tests	Rotating Electrical Machines - Part 1.4: Methods for Determination of Test Quantities for Synchronous Electrically Excited Machines	GSO IEC 60034-4-1:2021	SASO GSO IEC 60034-4-1: 2022	1
it has no return	Optional specification	Rotating electrical machines - Part 27-4: Measurement of insulation resistance and polarization index of winding insulation of rotating electrical machines	Rotating Electrical Machines - Part 4-27: Measurement of insulation resistance and polarization index of the winding insulation of rotating electrical machinery	GSO IEC 60034-27-4:2021	SASO GSO IEC 60034-27-4: 2022	2

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The corresponding Saudi standard number to be withdrawn	Application adjective	Standard title	Standard title	Gulf Standard No.	The approved Saudi standard number	M
it has no return	Optional specification	International Electrotechnical :Vocabulary (IEV) - Part 692 Generation, transmission and - distribution of electrical energy Dependability and quality of service of electric power systems	International Electrotechnical Terms - Part 692: Generation, Transmission and Distribution of Electric Energy - Reliability and Quality of Service for Electric Power Systems	GSO IEC 60050-692:2021	SASO GSO IEC 60050-692: 2022	3
SASO IEC 60068-3-6:2008	optional specification	:Environmental testing - Part 3-6 Supporting documentation and guidance - Confirmation of the performance of temperature/ humidity chambers	Environmental Tests - Part 6-3: Supporting Documents and Guidelines - Confirmation of Temperature and Humidity Performance for Test Rooms	GSO IEC 60068-3-6:2021	SASO GSO IEC 60068-3-6: 2022	4
it has no return	Optional specification	Surge arresters - Part 9: Metal-oxide surge arresters without gaps for HVDC converter stations	Overvoltage arrestors - Part 9: Oxidized metal overvoltages without gaps for use in high voltage DC stations)HVDC(	GSO IEC 60099-9:2021	SASO GSO IEC 60099-9:2022 5	
SASO IEC 60282-1:2020 Optional Specification		High-voltage fuses - Part 1: Current limiting fuses	Fuses: Part 1 - High Voltage Fuses Neutralization of electric current	GSO IEC 60282-1:2021	SASO GSO IEC 60282-1:2022 6	
SASO IEC 60674-3-8:2012	optional specification	Plastic films for electrical purposes - Part 3: Specifications for individual materials - Sheet 8: Balanced biaxially oriented polyethylene naphthalate (PEN) films used for electrical insulation	Plastic films for electrical purposes -Part 3: Properties of Individual Materials- Paper 8: Polyethylene Naphthalate Films PEN (Dual Axial Balanced Dielectric)	GSO IEC 60674-3-8:2021	SASO GSO IEC 60674-3-8: 2022	7
it has no return	Optional specification	Flexible insulating sleeving - Part 3: Specifications for individual types of sleeving - Sheet 280: Heat-shrinkable, polyolefin sleeving, anti-tracking	Elastic insulating sleeves - Part 3: Characteristics of single types of sleeves - Section 280: Anti-trace heat shrinkable polyvinyl chloride sleeves	GSO IEC 60684-3-280:2021	SASO GSO IEC 60684-3-280: 2022	8
it has no return	Optional specification	Design criteria of overhead lines transmission	- pneumatic electric transport lines Design Standards	GSO IEC 60826:2021	SASO GSO IEC 60826:2022	9
it has no return	Optional specification	High-voltage test techniques for low-voltage equipment - Definitions, test and procedure requirements, test equipment	High Voltage Test Techniques for Low Voltage Equipment - Definitions, Test Requirements and Procedure, Test Equipment	GSO IEC 61180:2021	SASO GSO IEC 61180:2022	10
it has no return	Optional specification	Compression and mechanical con nectors for power cables - Part 1-2: Test methods and requirements for insulation piercing connectors for power cables for rated voltages up to 1 kV (U_m = 1,2 kV) tested on insulated conductors	Mechanical and compression joints for electric power cables - Part 1-1: Test methods and requirements for insulation penetration bonding of electric power cables for tested voltage 1 kV (Um=1,2 kV) up to rated insulated conductors	GSO IEC 61238-1-2:2021	SASO GSO IEC 61238-1-2: 2022	11
it has no return	Optional specification	Compression and mechanical connec tors for power cables - Part 1-3: Test methods and requirements for com pression and mechanical connectors for power cables for rated voltages above 1 kV (U_m = 1,2 kV) up to 30 kV (U_m = 36 kV) tested on non-insulated conductors	Mechanical and Compressive Power Cable Joints - Part 1-3: Methods and Requirements for Testing Joints of Mechanical and Compressive Power Cables for Higher Rated Voltages (kV) (Um=1,2 kV) of 1 (kV) (Um = 36 kV) up to . 30 Tested on uninsulated conductors	GSO IEC 61238-1-3:2021	SASO GSO IEC 61238-1-3: 2022	12
it has no return	Optional specification	Application integration at electric utilities - System interfaces for distribution management - Part 11: Common information model (CIM) extensions for distribution	Application integration for electrical utilities System interfaces for distribution management Part 11: Additions to the Common Information Model (CIM) for distribution	GSO IEC 61968-11:2021	SASO GSO IEC 61968-11: 2022	13

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The corresponding Saudi standard number to be withdrawn	Application adjective	Standard title	Standard title	Gulf Standard No.	The approved Saudi standard number	M
it has no return	Optional specification	Energy management system application program interface (EMS-API) - Part 552: CIMXML Model exchange format	Energy Management System Application Software Interconnection (API-EMS - (Part 552): CIMXML format)	GSO IEC 61970-552:2021	SASO GSO IEC 61970-552: 2022	14
it has no return	Optional specification	Power systems management and associated information exchange - Data and communications security - Part 7: Network and System Manage ment (NSM) data object models	Capacity systems management and related information exchange - Communications and data security - Part 7: Systems and Network Management (NSM) data model format	GSO IEC 62351-7:2021	SASO GSO IEC 62351-7:2022	15
it has no return	Optional specification	Power systems management and associated information exchange - Interoperability in the long term - Part 100: CIM profiles to XML schema mapping	Power Systems Management and Information Sharing - Long-Term Interoperability - Part 100: Model Interconnection Diagram (CIM) with (XML)	GSO IEC 62361-100:2021	SASO GSO IEC 62361-100: 2022	16
it has no return	Optional specification	Hydraulic machines - Guidelines for dealing with hydro-abrasive erosion in Kaplan, Francis and Pelton turbines	Hydraulic Machines - A guide to dealing with abrasive wear in Kaplan (Francis and Pelton) turbines.	GSO IEC 62364:2021	SASO GSO IEC 62364:2022	17
it has no return	Optional specification	Safety requirements for power electronic converter systems and equipment - Part 2: Power electronic converters from 1 000 V AC or 1 500 V DC up to 36 kV AC or 54 kV DC	Safety requirements for electronic power modulator equipment and systems - Part 2: Electronic power modulator 1500V DC or 1000V AC from 54kV DC or 36kV AC up to	GSO IEC 62477-2:2021	SASO GSO IEC 62477-2:2022	18
it has no return	Optional specification	Power line communication systems for power utility applications - Part 2: Analogue power line carrier terminals or APLC	Communication systems using power lines for power service applications - Part 2: Analogue Power Line Carrier (APLC) Terminals	GSO IEC 62488-2:2021	SASO GSO IEC 62488-2:2022	19
SASO IEC 62561-3:2013	Optional Specification	Lightning protection system components (LPSC) - Part 3: Requirements for isolating spark gaps (ISG)	Components of lightning protection systems LPSC - (Part 3: Spark Gap Insulation (ISG) Requirements)	GSO IEC 62561-3:2021	SASO GSO IEC 62561-3:2022	20
SASO IEC 62561-7:2012	Optional Specification	Lightning protection system :components (LPSC) - Part 7 Requirements for earthing enhancing compounds	Components of a lightning protection system LPSC - (Part 7: Requirements for Ground Improvement Compounds	GSO IEC 62561-7:2021	SASO GSO IEC 62561-7:2022	21
it has no return	Optional specification	Heat shrinkable low and medium :voltage moulded shapes - Part 1 General requirements	Low and Medium Voltage Heat Shrink Die Cast Shapes - Part 1: General requirements	GSO IEC 62677-1:2021	SASO GSO IEC 62677-1:2022	22
it has no return	Optional specification	Heat shrinkable low and medium voltage moulded shapes - Part 2: Methods of test	Low and Medium Voltage Heat Shrink Molds - Part 2: Test Methods	GSO IEC 62677-2:2021	SASO GSO IEC 62677-2:2022	23
it has no return	Optional specification	Current and voltage sensors or detectors, to be used for fault passage indication purposes - Part 1: General principles and requirements	Voltage and current sensors or detectors for use in fault-traffic indicators - Part 1: General requirements and principles	GSO IEC 62689-1:2021	SASO GSO IEC 62689-1:2022	24
it has no return	Optional specification	Current and voltage sensors or detectors, to be used for fault passage indication purposes - Part 2: System aspects	Current and voltage sensors and detectors for use in faulty traffic indicators - Part 2: System aspects	GSO IEC 62689-2:2021	SASO GSO IEC 62689-2:2022	25
it has no return	Optional specification	Composite hollow core station post insulators for substations with a.c. voltage greater than 1 000 V and d.c. - voltage greater than 1 500 V Definitions, test methods and acceptance criteria	Hollow composite insulators installed in substations with alternating voltages above (1000 V) and continuous voltages above (1500) V - (definitions, test methods and acceptance criteria	GSO IEC 62772:2021	SASO GSO IEC 62772:2022	26

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The corresponding Saudi standard number to be withdrawn	Application adjective	Standard title	Standard title	Gulf Standard No.	The approved Saudi standard number	M
it has no return	Optional specification	Railway applications - DC surge arresters and voltage limiting devices - Part 1: Metal-oxide surge arresters without gaps	DC overvoltage arrestors and voltage neutralizers - Part 1: Overvoltage arrestors made of oxidized metal without gaps	GSO IEC 62848-1:2021	SASO GSO IEC 62848-1:2022	27
it has no return	Optional specification	Bi-directional grid connected power converters - Part 1: General requirements	Dual Grid Power Changers Direction - Part 1: General requirements	GSO IEC 62909-1:2021	SASO GSO IEC 62909-1:2022	28
it has no return	Optional specification	Power transformers - Part 23: DC devices suppression bias magnetic	Power transformers - Part 23: DC (magnetically biased) braking devices	GSO IEC TS 60076-23:2021	SASO GSO IEC TS 60076-23:2022	29
it has no return	Optional specification	Selection and dimensioning of high voltage insulators intended for use in polluted conditions - Part 4: Insulators for d.c. systems	Selection and Dimensioning of High Voltage Insulators for Use in Contaminated Conditions - Part 4: Insulators for DC Systems	GSO IEC TS 60815-4:2021	SASO GSO IEC TS 60815-4:2022	30
it has no return	Optional specification	Communication networks and systems for power utility automation - Part 80-4: Translation from the COSEM object model (IEC 62056) to the IEC 61850 data model	Communication networks and systems in automation (automation) electrical networks - Part 4-8: Transfer from an object model (62056 IEC (COSEM) to Data Model)IEC 61850(	GSO IEC TS 61850-80-4:2021	SASO GSO IEC TS 61850-80-4:2022	31
it has no return	Optional specification	Application integration at electric utilities - System interfaces for distribution management - Part 14: MultiSpeak - CIM harmonization	Application integration for electrical services - system interfaces for distribution management, part 14: Matching . (MultiSpeak - CIM)	GSO IEC TS 61968-14:2021	SASO GSO IEC TS 61968-14:2022	32
it has no return	Optional specification	High voltage test techniques Measurement of partial discharges by electromagnetic and acoustic methods	High Voltage Test Techniques - Electromagnetic and Acoustic Partial Discharge Measurement	GSO IEC TS 62478:2021	SASO GSO IEC TS 62478:2022	33
it has no return	Optional specification	Lightning protection system :components (LPSC) - Part 8 Requirements for components for isolated LPS	Components of a lightning protection system LPSC (Part 8: LPS Component Requirements .) isolated	GSO IEC TS 62561-8:2021	SASO GSO IEC TS 62561-8:2022	34
it has no return	Optional specification	Distributed energy resources grid the with connection	Grid with distributed power interconnection resources	GSO IEC TS 62786:2021	SASO GSO IEC TS 62786:2022	35
it has no return	Optional specification	Microgrids - Part 1: Guidelines for microgrid projects planning and specification	Micro-Networks - Part 1: Guidelines for Planning and Technical Standards for Micro-Network Projects	GSO IEC TS 62898-1:2021	SASO GSO IEC TS 62898-1:2022	36
it has no return	Optional specification	High voltage direct current (HVDC) power transmission - System require ments for DC-side equipment - Part 1: Using line-commutated converters	Power transmission for high voltage DC HVDC - (System requirements for direct current equipment) - (Part 1: Using Linear Switching Modulators)	GSO IEC TS 63014-1:2021	SASO GSO IEC TS 63014-1:2022	37
it has no return	Optional specification	Communication networks and systems for power utility automation - Part 7-6: Guideline for definition of Basic Appli cation Profiles (BAPs) using IEC 61850	Communication systems and networks for power station automation - Part 6-7: Guide to defining basic application profiles (BAPs) IEC 61850 using	GSO IEC TR 61850-7-6:2021	SASO GSO IEC TR 61850-7-6:2022	38
it has no return	Optional specification	Communication networks and systems for power utility automation - Part 7-500: Basic information and communication structure - Use of logical nodes for modeling application functions and related concepts and guidelines for substations	Communication systems and networks for automating capacity services - Part 500-7: Information and Communication Infrastructure - Using logical nodes to model application functions, related concepts, principles and guidelines for substations	GSO IEC TR 61850-7-500:2021	SASO GSO IEC TR 61850-7-500:2022	39
it has no return	Optional specification	Communication networks and systems for power utility automation - Part 90-2: Using IEC 61850 for communication between substations and control centres	Communication networks and systems in automation (automation) Electrical networks - for communication IEC 61850 Use: Part 90-2 Built switching substations and control centers	GSO IEC TR 61850-90-2:2021	SASO GSO IEC TR 61850-90-2:2022	40

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The corresponding Saudi standard number to be withdrawn	Application adjective	Standard title	Standard title	Gulf Standard No.	The approved Saudi standard number	M
it has no return	Optional specification	High-voltage direct current (HVDC) systems - Guidance to the specification and design evaluation of AC filters - Part 2: Performance	High Voltage DC Systems HVDC- (Guidelines for Design Standards and Evaluation of AC Filters - Part 2: Performance:	GSO IEC TR 62001-2:2021	SASO GSO IEC TR 62001-2:2022 41	
it has no return	Optional specification	High-voltage switchgear and controlgear - Part 307: Guidance for the extension of validity of type tests of AC metal and solid-insulation enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV	High Voltage Cut-off, Connection and Control Equipment - Part 307: A Guide to Extension of Model Tests for Metallic and Solid Isolated AC Cut-off, Connection and Control Equipment Greater (52 kV) to 1 (kV)	GSO IEC TR 62271-307:2021	SASO GSO IEC TR 62271-307: 2022	42
it has no return	Optional specification	Power systems management and associated information exchange - Part 2: Use Cases and role model	Capacity systems management and related information exchange - Part 2: Use cases and role model	GSO IEC TR 62357-2:2021	SASO GSO IEC TR 62357-2: 2022	43
SASO IEC TS 62672-1:2014	optional specification	Reliability and availability evaluation of HVDC systems	HVDC Systems Availability Reliability Assessment	GSO IEC TR 62672:2021	SASO GSO IEC TR 62672: 2022	44
it has no return	Optional specification	Safety procedures for reduction of risk structure a outside	Safety measures to reduce risks outside the structure	2021:62713 TR IEC GSO	SASO GSO IEC TR 62713: 2022	45
it has no return	Optional specification	HVDC installations - Guidelines on management asset	High voltage DC installations HVDC - (Asset Management Guidelines	2021:62978 TR IEC GSO	SASO GSO IEC TR 62978: 2022	46
it has no return	Optional specification	Guidelines for operation and maintenance of line commutated converter (LCC) HVDC converter station	Instructions for Operation and Maintenance of Linear Switching Inverter (LCC) for Linear Switching Stations HVDC	GSO IEC TR 63065:2021	SASO GSO IEC TR 63065: 2022	47

6 (The Gulf Technical Committee for the Standards Sector and Equipment for Water Production, Transmission and Distribution (TC10):)

The corresponding Saudi standard number to be withdrawn	Application adjective	Standard title	Standard title	Gulf Standard No.	The approved Saudi standard number	M
SASO ISO 3459:2020	optional specification	Plastic piping systems — Mechanical joints between fittings and pressure pipes — Test method for leaktightness under negative pressure	Plastic piping systems - Mechanical connections between fasteners and pressure pipes - Back-pressure leak test method	GSO ISO 3459: 2021	SASO GSO ISO 3459:2022	1
it has no return	Optional specification	Determination of resistance to intergranular corrosion of stainless steels — Part 3: Corrosion test for low-Cr ferritic stainless steels	Determination of the intergranular corrosion resistance of stainless steel - Part 3: Corrosion test for low chromium stainless steel	GSO ISO 3651-3:2021 SASO GSO ISO 3651-3:2022		2
SASO ISO 6553:2017	optional specification	Automatic steam traps — Marking	Explanatory data - Mechanism of Steam Valves GSO ISO 6553:2021		SASO GSO ISO 6553:2022	3
SASO ISO 7509:2015	optional specification	Plastics piping systems — Glass reinforced thermosetting plastics (GRP) pipes — Determination of time to failure under sustained internal pressure	Plastic Pipe Systems - Glass Reinforced Thermoplastic (GRP) Pipes -) Determining the collapse time of the sample under the influence of constant internal pressure	GSO ISO 7509: 2021	SASO GSO ISO 7509:2022	4
SASO ISO 9349:2019	optional specification	,Ductile iron pipes, fittings accessories and their joints — Thermal preinsulated products	ductile iron pipes, fittings, fittings and fittings - pre-insulated refractory products	GSO ISO 9349: 2021	SASO GSO ISO 9349:2022	5
SASO ISO 9624:2010	optional specification	Thermoplastics piping systems for fluids under pressure — Flange adapters and loose backing flanges — Mating dimensions	Thermoplastic piping systems for fluid under pressure flanged terminals - connection dimensions	GSO ISO 9624: 2021	SASO GSO ISO 9624:2022	6
SASO ISO 10468:2010	optional specification	Glass-reinforced thermosetting plastics (GRP) pipes — Determination of the ring creep properties under wet or dry conditions	Glass Reinforced Thermoplastic Tubing - Loop creep determination under wet or dry conditions	GSO ISO 10468: 2021	SASO GSO ISO 10468:2022 7	

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The corresponding Saudi standard number to be withdrawn	Application adjective	Standard title	Standard title	Gulf Standard No.	The approved Saudi standard number	M
SASO ISO 10471:2010	optional specification	Glass-reinforced thermosetting plastics (GRP) pipes — Determination of the long-term ultimate bending strain and the long-term ultimate relative ring deflection under wet conditions	Glass-reinforced thermoplastic tubes - Determination of long-term final bending stress and relative loop deflection under wet conditions	GSO ISO 10471:2021	SASO GSO ISO 10471:2022	8
SASO ISO 10804:2014	optional specification	Restrained joint systems for ductile iron pipelines — Design rules and type testing	Iron Pipes Lines Locks Connectors Systems Almtyl - Rules of design and quality testing	GSO ISO 10804:2021	SASO GSO ISO 10804:2022	9
SASO ISO 11298-1:2011	optional specification	Plastics piping systems for renovation of underground water supply networks — Part 1: General	Plastic piping systems to renovate underground water distribution networks - Part 1: General	GSO ISO 11298-1: 2021	SASO GSO ISO 11298-1:2021	10
SASO ISO 12176-1:2014	optional specification	— Plastics pipes and fittings Equipment for fusion jointing polyethylene systems — Part 1: Butt fusion	Plastics pipes and fittings - Fusion fittings for polyethylene systems - Part 1: Fusing of terminals	GSO ISO 12176-1: 2021	SASO GSO ISO 12176-1: 2022	11
SASO ISO 12473:2008	optional specification	General principles of cathodic protection in sea water	cathodic protection for the general method of foundations from corrosion in sea water	GSO ISO 12473:2021	SASO GSO ISO 12473:2022	12
it has no return	Optional specification	Seal-less rotodynamic pumps — Specification — II Class	Direct Contact Rotary Pumps SPECIFICATIONS - SECOND CLASS	GSO ISO 15783:2021	SASO GSO ISO 15783:2022	13
SASO ISO 15876-1:2010	optional specification	Plastics piping systems for hot and cold water installations — Polybutene (PB) — Part 1: General	Plastic piping systems for hot and cold water installations - Polybutene (PB -) Part 1: General	GSO ISO 15876-1: 2021	SASO GSO ISO 15876-1: 2022	14
SASO ISO 15876-2:2010	optional specification	Plastics piping systems for hot and cold water installations — Polybutene (PB) — Part 2: Pipes	Plastic piping systems for hot and cold water installations - Polybutene (PB -) Part 2: Pipes	GSO ISO 15876-2: 2021	SASO GSO ISO 15876-2: 2022	15
SASO ISO 15876-3:2010	optional specification	Plastics piping systems for hot and cold water installations — Polybutene (PB) — Part 3: Fittings	Plastic piping systems for hot and cold water installations - Polybutene (PB -) Part 3: Structures	GSO ISO 15876-3: 2021	SASO GSO ISO 15876-3: 2022	16
SASO ISO 16132:2019	optional specification	Ductile iron pipes and fittings — Seal coats for cement mortar linings	and ductile iron fittings and pipe fittings - Protective coating for cement lining	GSO ISO 16132:2021	SASO GSO ISO 16132:2022	17
SASO ISO 18851:2015	optional specification	-Plastics piping systems — Glass reinforced thermosetting plastics (GRP) pipes and fittings — Test method of fit to prove the structural designn tings	Plastic piping systems - Glass reinforced thermoplastic pipes and fittings - Test method to prove structural design of installations	GSO ISO 18851:2021	SASO GSO ISO 18851:2022	18
it has no return	Optional specification	Industrial valves — Lined metal quarter turn and check valves for chemical process and related industries	Industrial valves - metal lined quarter-roll and check valves for chemical processes and related industries	GSO ISO 19240:2021	SASO GSO ISO 19240:2022	19
it has no return	Optional specification	Guidelines for the management of assets of water supply and wastewater systems — Part 2: Water works	Guidelines for Asset Management of Water and Wastewater Distribution Systems - Part 2: Water Works	2021: 2-24516 ISO GSO	SASO GSO ISO 24516-2: 2022	20
it has no return	Optional specification	Industrial valves — Isolating valves for low-temperature applications — Part 2: Type testing	Industrial valves - Isolation valves for low temperature applications - Part 2: Model testing	GSO ISO 28921-2: 2021	SASO GSO ISO 28921-2: 2022	21
it has no return	Optional specification	Plastics piping systems — General rules for structural design of glass reinforced thermosetting plastics (GRP) pipes — Part 1: Buried pipes	Plastic Piping Systems - General Rules for Structural Design of GRP (Glass Reinforced Plastic) Pipes - Part 1: Embedded Pipes	GSO ISO/TS 20656-1:2021	SASO GSO ISO/TS 20656-1: 2022	22

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The corresponding Saudi standard number to be withdrawn	Application adjective	Standard title	Standard title	Gulf Standard No.	The approved Saudi standard number	M
it has no return	Optional specification	Service activities relating to drinking water supply systems and wastewater systems — Crisis management — Good practice for technical aspects	Service activities related to drinking water supply systems and sanitation systems Crisis management - technical good practice	GSO ISO/TS 24520:2021	SASO GSO ISO/TS 24520: 2022	23
it has no return	Optional specification	Event detection process: Guidelines utilities wastewater and water for	Case Detection Process: Guidance on Water and Wastewater Facilities	2021:TS/ISO GSO	SASO GSO ISO/TS 24522: 2022	24
it has no return	Optional specification	Industrial valves - Marking of metallic valves	Explanatory data - industrial valves for metal valves	GSO EN 19:2021	SASO GSO EN 19:2	25
it has no return	Optional specification	,Ductile iron pipes, fittings accessories and their joints for water pipelines – Requirements and test methods	Ductile iron pipes, fittings, accessories and connections for water pipelines - requirements and test methods	GSO EN 545:2021	SASO GSO EN 545:2022	26
it has no return	Optional specification	Industrial valves - Face-to-face and centre-to-face dimensions of metal valves for use in flanged pipe systems - PN and Class designated valves	Industrial valves - valve sides and center-to-face dimensions used in flanged piping systems - nominal pressure (PN) and class valves)Class(	GSO EN 558:2021	SASO GSO EN 558:2022	27
it has no return	Optional specification	Reinforced concrete pressure pipes, cylinder type, including joints and fittings	Concrete cylindrical pressure tubes The armed forces include connections and fixtures	GSO EN 641:2021	SASO GSO EN 641:2022	28
it has no return	Optional specification	:Valves - Terminology - Part 1 valves of types of Definition	Part 1: Technical Terms Valves Definition of valve types	GSO EN 736-1:2021	SASO GSO EN 736-1:2022	29
it has no return	Optional specification	:Valves - Terminology - Part 2 valves of components of Definition	Part 2: Technical Terminology - Valves Definition of valve components	GSO EN 736-2:2021	SASO GSO EN 736-2:2022 30	
it has no return	Optional specification	:Valves - Terminology - Part 3 terms of Definition	Part 3: Technical Terms Valves Define terms	GSO EN 736-3:2021	SASO GSO EN 736-3:2022	31
SASO EN 805:2021	optional specification	Water supply – Requirements for systems and components outside buildings	. Systems & Components Requirements - Water Distribution outside the buildings	GSO EN 805:2021	SASO GSO EN 805:2022	32
SASO EN 1074-3:2021	optional specification	Valves for water supply – Fitness for purpose requirements and appropriate verification tests – Part 3: Check valves	Water Distribution Valves - Matching Use Requirements and Appropriate Verification Tests - Part 3: Check Valves	GSO EN 1074-3:2021	SASO GSO EN 1074-3:2022	33
SASO EN 1074-6:2021	optional specification	Valves for water supply– Fitness for purpose requirements and appropriate verification tests – Part 6: Hydrants	Water Distribution Valves - Matching Use Requirements and Appropriate Verification Tests - Part 6: Fire Nozzles	GSO EN 1074-6:2021	SASO GSO EN 1074-6:2022	34
SASO EN 1491:2021	optional specification	Building valves – Expansion valves - Tests and requirements	- Buildings in use valves Expansion valves - tests and requirements	GSO EN 1491:2021	SASO GSO EN 1491:2022	35
it has no return	Optional specification	valves ball Steel - valves Industrial	Ball Valves - Industrial Valves Made of steel	GSO EN 1983:2021	SASO GSO EN 1983:2022	36
versus her not	optional specification	Steel threaded pipe fittings	Steel Iron Threaded Pipe Fittings	GSO EN 10241:2021	SASO GSO EN 10241:2022	37
it has no return	Optional specification	Threaded pipe fitting in malleable iron cast	Cast iron threaded pipe fittings mutawa	GSO EN 10242:2021	SASO GSO EN 10242:2022	38
it has no return	Optional specification	Welded stainless steel tubes for the conveyance of aqueous liquids including water for human consumption – Technical delivery conditions	Welded stainless steel pipes for conveying aqueous liquids, including water for human consumption - technical delivery terms	GSO EN 10312:2021	SASO GSO EN 10312:2	
it has no return	Optional specification	Industrial valves - Testing of metallic valves - Part 1: Pressure tests, test procedures and acceptance criteria - Mandatory requirements	Industrial valves - Testing of metallic valves - Part 1: Pressure test procedures and acceptance criteria - Mandatory requirements	GSO EN 12266-1:2021	SASO GSO EN 12266-1: 2022	40

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The corresponding Saudi standard number to be withdrawn	Application adjective	Standard title	Standard title	Gulf Standard No.	The approved Saudi standard number	M
it has no return	Optional specification	Industrial valves - Testing of metallic valves - Part 2: Tests, test procedures and acceptance criteria - Supplementary requirements	Industrial valves - Testing of metal valves - Part 2: Test procedures and acceptance criteria - Additional requirements	GSO EN 12266-2:2021	SASO GSO EN 12266-2: 2022	41
SASO EN 12288:2020	optional specification	Industrial valves - Copper alloy gate valves	Portal Valves - Industrial Valves Made of copper alloy	GSO EN 12288:2021	SASO GSO EN 12288:2022	42
it has no return	Optional specification	Industrial valves - Method for sizing element operating the	Force Measurement Method - Industrial Valves playback element	GSO EN 12570:2021	SASO GSO EN 12570:2022	43
it has no return	Optional specification	Water supply - Specification for indirectly heated unvented (closed) storage water heaters	WATER DISTRIBUTION - SPECIFICATIONS FOR TIGHT STORAGE (CLOSED) WATER HEATERS WITH INDIRECT HEAT	GSO EN 12897:2021	SASO GSO EN 12897:2022	44
it has no return	Optional specification	Devices to prevent pollution by back flow of potable water - Air gap with non-circular overflow (unrestricted)– Family A - Type B	Potable water backflow anti-pollution devices - air gap with non-circular overflow (unconstrained) - family A and type B	GSO EN 13077:2021	SASO GSO EN 13077:2022	45
it has no return	Optional specification	Water conditioning equipment inside buildings - Mechanical filters- Part 1: Particle rating 80 µm to 150 µm – Requirements for performances, safety and testing	Indoor Water Purification Equipment Mechanical Filters - Part 1: Particulate Rate 80 µm to 150 µm - Performance, Safety and Test Requirements	GSO EN 13443-1:2021	SASO GSO EN 13443-1: 2022	46
it has no return	Optional specification	Water conditioning equipment inside buildings- Mechanical filters– Part 2: Particle rating 1 µm to less than 80 µm - Requirements for performance, safety and testing	Indoor water purification equipment - Mechanical filters - Part 2: Particulate rate from 1 ÿm to less than 80 ÿm - Performance, safety and testing requirements	GSO EN 13443-2:2021	SASO GSO EN 13443-2: 2022	47
it has no return	Optional specification	Flexible hose assemblies in drinking water installations– Functional requirements and test methods	Flexible hose components in drinking water connections - functional requirements and test methods	GSO EN 13618:2021	SASO GSO EN 13618:2022	48
SASO EN 13828:2020	optional specification	Building valves– Manually operated copper alloy and stainless steel ball valves for potable water supply in buildings – Tests and requirements	Valves for Buildings - Hand-operated ball valves made of copper and stainless steel alloys for the supply of potable water in buildings - Tests and requirements	GSO EN 13828:2021	SASO GSO EN 13828:2022	49
it has no return	Optional specification	Anti-pollution check valves - DN 6 to DN 250 inclusive family E, type A, B, C and D	Anti-pollution check valves - nominal diameter from 6 to 250 Includes family E, type A, B, C, and D	GSO EN 13959:2021	SASO GSO EN 13959:2022	50
it has no return	Optional specification	Water conditioning equipment inside buildings- Active media filters - Requirements for performance, safety and testing	Indoor water purification equipment - Active media filters - Performance, safety and testing requirements	GSO EN 14898:2021	SASO GSO EN 14898:2022	51
it has no return	Optional specification	Pumps - Minimum required efficiency pumps water rotodynamic of	Minimum Required Efficiency - Pumps For circulating water pumps	GSO EN 16480:2021	SASO GSO EN 16480:2022	52
SASO GSO ASTM B338:2015	optional specification	Standard Specification for Seamless and Welded	Technical specification for heat exchanger tubes and condensers made of titanium and its alloys	GSO ASTM B338:2021	SASO GSO ASTM B338: 2022	53

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7) Gulf Technical Committee for Renewable Energy Specifications and Storage Technologies Sector (TC13:)

The corresponding Saudi standard number to be withdrawn	characteristic Application	Standard title	Standard title	Gulf Standard No.	Standard No. Saudi approved	M
it has no return	Optional specification	- Electromechanical elementary relays Part 10: Additional functional aspects and safety requirements for high-capacity relays	Electromechanical primary relays - Part 10: Additional functional aspects and safety requirements for high-capacity relays	GSO IEC 61810-10:2021	SASO GSO IEC 61810-10:2022	1
it has no return	Optional specification	Solar thermal electric plants - Part 3-2: Systems and components - General requirements and test methods for large-size parabolic-trough collectors	Solar thermal power stations - Part 2-3: Systems and components - General requirements and test methods for large-volume parabolic pools	GSO IEC 62862-3-2:2021	SASO GSO IEC 62862-3-2: 2022	2
it has no return	Optional specification	Photovoltaic cells - Part 1: Measurement of light-induced degradation of crystalline silicon photovoltaic cells	Photovoltaics - Part 1: Measurement of the light-induced reduction of crystalline silicon photovoltaics	GSO IEC 63202-1:2021	SASO GSO IEC 63202-1:2022	3
it has no return	Optional specification	:Photovoltaic devices - Part 1-2 Measurement of current-voltage characteristics of bifacial photovoltaic (PV) devices	Photovoltaic devices - Part 1-2: Measurement of Voltage-Current Characteristics (VI) For double-sided photovoltaic devices	GSO IEC TS 60904-1-2:2021	SASO GSO IEC TS 60904-1-2: 2022	4
it has no return	Optional specification	:Photovoltaic devices - Part 13 Electroluminescence of photovoltaic modules	Photovoltaic devices - Part 13: Electric flashing of panels PV	GSO IEC TS 60904-13:2021	SASO GSO IEC TS 60904-13: 2022	5
it has no return	Optional specification	Solar thermal electric plants - Part 1-1: Terminology	. Solar thermal power stations - Part 1-1: Terminology	GSO IEC TS 62862-1-1:2021	SASO GSO IEC TS 62862-1-1: 2022	6
it has no return	Optional specification	Solar thermal electric plants - Part 1-2: General - Creation of annual solar radiation data set for solar thermal electric (STE) plant simulation	Solar thermal electric stations - Part 1-2: General - Establishing an annual data set on solar radiation to simulate solar thermal stations	GSO IEC TS 62862-1-2:2021	SASO GSO IEC TS 62862-1-2: 2022	7
it has no return	Optional specification	Solar thermal electric plants - Part 1-3: General - Data format for meteorological data sets	Solar Thermal Power Stations - Part 1-3: General - Data Coordination for Meteorological Data Sets	GSO IEC TS 62862-1-3:2021	SASO GSO IEC TS 62862-1-3: 2022	8
it has no return	Optional specification	Photovoltaic (PV) modules - Type approval, design and safety qualification - Retesting	Photovoltaic (PV) panels (type and design approval, safety qualification, retesting	GSO IEC TS 62915:2021	SASO GSO IEC TS 62915:2022	9

8 (Gulf Technical Committee for Toy Safety Specifications Sector (TC14):)

The corresponding Saudi standard number to be withdrawn	Application adjective	Standard title	Standard title	Gulf Standard No.	The approved Saudi standard number	M
SASO ISO 8098:2020	optional specification	Cycles — Safety requirements for bicycles for young children	Safety and security requirements - bicycles For children's bikes	GSO ISO 8098: 2021	SASO GSO ISO 8098:2022	1
it has no return	Optional specification	Safety of toys — Part 4: Swings, slides and similar activity toys for indoor and outdoor family domestic use	Children's Play Safety - Part 4: Swings Similar play activities, slides, for indoor and outdoor use	GSO ISO 8124-4: 2021	SASO GSO ISO 8124-4:2022	2
it has no return	Optional specification	Safety of toys — Part 5: Determination of total concentration of certain elements in toys	Grade: Part 5 - Children are safe play Total concentration of specific substances in toys	GSO ISO 8124-5: 2021	SASO GSO ISO 8124-5:2022	3
SASO ISO 25649-1:2018	optional specification	Floating leisure articles for use on and in the water — Part 1: Classification, materials, general requirements and test methods	Recreational buoyancy equipment for use in water - Part 1: Classification, materials, general requirements and test methods	GSO ISO 25649-1:2021	SASO GSO ISO 25649-1:2022	4
SASO ISO 25649-2:2018	optional specification	Floating leisure articles for use on and in the water — Part 2: Consumer information	In used recreational buoyancy tools Water - Part 2: Consumer Information	GSO ISO 25649-2:2021	SASO GSO ISO 25649-2:2022	5

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The corresponding Saudi standard number to be withdrawn	Application adjective	Standard title	Standard title	Gulf Standard No.	The approved Saudi standard number	M
SASO ISO 25649-3:2018	optional specification	Floating leisure articles for use on and in the water — Part 3: Additional specific safety requirements and test methods for Class A devices	Recreational buoyancy for use in water - Part 3: Additional safety requirements and test methods for Class A equipment	GSO ISO 25649-3:2021	SASO GSO ISO 25649-3:2022	6
SASO ISO 25649-4:2018	optional specification	Floating leisure articles for use on and in the water — Part 4: Additional specific safety requirements and test methods for Class B devices	Recreational buoyancy for use in water - Part 4: Additional safety requirements and test methods for Class B appliances	GSO ISO 25649-4:2021	SASO GSO ISO 25649-4:2022	7
SASO ISO 25649-5:2018	optional specification	Floating leisure articles for use on and in the water — Part 5: Additional specific safety requirements and test methods for Class C devices	Recreational buoyancy for use in water - Part 5: Additional safety requirements and test methods for Class C equipment	GSO ISO 25649-5:2021	SASO GSO ISO 25649-5:2022	8
SASO ISO 25649-6:2018	optional specification	Floating leisure articles for use on and in the water — Part 6: Additional specific safety requirements and test methods for Class D devices	Recreational buoyancy for use in water - Part 6: Additional safety requirements and test methods for Class D equipment	GSO ISO 25649-6:2021	SASO GSO ISO 25649-6:2022	9
SASO ISO 25649-7:2018	optional specification	Floating leisure articles for use on and in the water — Part 7: Additional specific safety requirements and test methods for Class E devices	Recreational buoyancy for use in water - Part 7: Additional safety requirements and test methods for Class E equipment	GSO ISO 25649-7:2021	SASO GSO ISO 25649-7:2022	10
it has no return	Optional specification	Safety of toys — Part 8: Age guidelines determination	PART 8: - CHILDREN PLAY IN SAFETY Guidelines for determining age	GSO ISO/TR 8124-8:2021	SASO GSO ISO/TR 8124-8: 2022	11
SASO GSO IN 71-1:2013	optional specification	Safety of toys -Part 1 :Mechanical and Physical properties	PART 1: CHILDREN PLAY IN SAFETY Mechanical and physical properties	GSO EN 71-1:2021	SASO GSO EN 71-1:2022	12
SASO GSO IN 71-2:2011	optional specification	Safety of toys - Part 2: Flammability	Portability: Part 2 - Children play in safety ignition	GSO EN 71-2:2021	SASO GSO EN 71-2:2022	13
SASO GSO IN 71-3:2011	optional specification	Safety of toys - Part 3: Migration of certain elements	Exodus: Part 3 - Children play in safety certain items	GSO EN 71-3:2021	SASO GSO EN 71-3:2022	14
SASO GSO IN 71-4:2011	optional specification	Safety of toys -Part 4 :Experimental sets for chemistry and related activities	Safety in children's toys - Part 4: Chemistry experimental groups and related activities	GSO EN 71-4:2021	SASO GSO EN 71-4:2022	15
SASO GSO IN 71-7:2011	optional specification	Safety of toys - Part 7: Finger paints - Requirements and test methods	Imprints: Part 7 - Children play in safety Finger (paints) - requirements and test methods	GSO EN 71-7:2021	SASO GSO EN 71-7:2022	16
it has no return	Optional specification	Safety of toys - Part 12: N-Nitrosamines and N-nitrosatable substances	Materials: Part 12 - Children play in safety Nitrosamne and nitrosatable	GSO EN 71-12:2021	SASO GSO EN 71-12:2022	17
it has no return	Optional specification	Safety of toys - Part 13: Olfactory board games, cosmetic kits and gustative games	Safety in children's toys - Part 13: Board games related to the sense of smell, sets of cosmetics and toys related to the sense of taste.	GSO EN 71-13:2021	SASO GSO EN 71-13:2022	18
it has no return	Optional specification	Safety of toys - Part 14: Trampolines use domestic for	Safety in children's toys - Part 14: (trampoline) Jumping equipment for home use	GSO EN 71-14:2021	SASO GSO EN 71-14:2022	19
SASO EN 1069-1:2019	optional specification	Water slides - Part 1: Safety requirements and test methods	Requirements: Part 1 - Water Slides Safety and test methods	GSO EN 1069-1:2021	SASO GSO EN 1069-1:2022	20
SASO EN 1069-2:2019	optional specification	Water slides - Part 2: Instructions	Instructions: Part 2 - Water Slides	GSO EN 1069-2:2021	SASO GSO EN 1069-2:2022	21

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Mandatory and optional Saudi standards approved in the meeting of the Board of Directors of the Authority No. (187) Held on 10/03/1444 AH.. Continued

The corresponding Saudi standard number to be withdrawn	Application adjective	Standard title	Standard title	Gulf Standard No.	The approved Saudi standard number	M
it has no return	Optional specification	Impact protection helmets for young children	.Dedicated Impact Protection Helmets for kids	GSO EN 1080:2021	SASO GSO EN 1080:2022	22
SASO EN 1176-1:2021	optional specification	Playground equipment and surfacing - Part 1: General safety requirements and test methods	Playground Equipment and its Surface - Part One: General Safety Requirements and Test Methods	GSO EN 1176-1:2021	SASO GSO EN 1176-1:2022	23
SASO EN 1176-3:2021	optional specification	Playground equipment and surfacing - Part 3: Additional specific safety requirements and test methods for slides	Playground equipment and its surface - Part 3: Additional safety requirements specified for slides and their test methods	GSO EN 1176-3:2021	SASO GSO EN 1176-3:2022	24
SASO EN 1176-4:2021	optional specification	Playground equipment and surfacing - Part 4: Additional specific safety requirements and test methods for cableways	Playground equipment and its surface - Part 4: Additional specified safety requirements for roller skating equipment and their test methods	GSO EN 1176-4:2021	SASO GSO EN 1176-4:2022	25
SASO EN 1176-6:2021	optional specification	Playground equipment and surfacing - Part 6: Additional specific safety requirements and test methods for rocking equipment	Playground equipment and its surface - Part 6: Additional specified safety requirements for vibrating equipment and their test methods	GSO EN 1176-6:2021	SASO GSO EN 1176-6:2022	26
SASO EN 1176-10:2013	optional specification	Playground equipment and surfacing - Part 10: Additional specific safety requirements and test methods for fully enclosed play equipment	Children's Playground Equipment and its Surface - Part 10: Additional Specific Safety Requirements for Completely Enclosed Playground Equipment and Test Methods	GSO EN 1176-10:2021	SASO GSO EN 1176-10:2022	27
SASO EN 1176-11:2021	optional specification	Playground equipment and surfacing - Part 11: Additional specific safety requirements and test methods for spatial network	Children's Playground Equipment and its Surface - Part Eleven: Safety Requirements for Net Game and Test Methods	GSO EN 1176-11:2021	SASO GSO EN 1176-11:2022	28
it has no return	Optional specification	Impact attenuating playground surfacing - Methods of test for determination of impact attenuation	Children play on impact surfaces . Reducing the effect - Test methods for determining the impact of impact	GSO EN 1177:2021	SASO GSO EN 1177:2022	29
it has no return	Optional specification	Leisure karts - Part 1: Safety requirements and test methods for karts	Part 1: Recreational Racing Vehicles Safety requirements and test methods	GSO EN 16230-1:2021	SASO GSO EN 16230-1:2022	30
it has no return	Optional specification	Playing field equipment - Lightweight goals - Functional, safety requirements and test methods	Playground Equipment Lightweight Objectives Functional Requirements Safety Requirements Test Methods	GSO EN 16664:2021	SASO GSO EN 16664:2022	31
it has no return	Optional specification	Safety of toys - National translations of warnings and instructions for use in the EN 71 series	Safety in Children's Toys - National Translations of Instructions and Warnings for the Use of the Specification Series EN71	GSO CEN/TR 15071:2021	SASO GSO CEN/TR 15071: 2022	32
it has no return	Optional specification	Safety of toys - Interpretations - Part 1: Replies to requests for interpretation of EN 71-1, EN 71-2, EN 71-8 and EN 71-14	Safety in toys - Explanations - Part 1: Requests for responses Explanations and EN 71-1, EN 71-2, EN 71-8, Specifications EN 71-14	GSO CEN/TR 15371-1:2021	SASO GSO CEN/TR 15371-1: 2022	33
it has no return	Optional specification	Safety of toys - Interpretations - Part 2: Replies to requests for interpretation of the chemical standards in the EN 71-series	Safety in Children's Toys - Explanations - Part 2: Requests for Responses Explanations for Chemical Specification Series 71 EN	GSO CEN/TR 15371-2:2021	SASO GSO CEN/TR 15371-2: 2022	34
it has no return	Optional specification	Safety of toys - Children´s mouthing toys with contact in behaviour	Safety in toys – children's behavior in toy oral contact	2021:16918 TR/CEN GSO	SASO GSO CEN/TR 16918: 2022	35
it has no return	Optional specification	Standard Consumer Safety Safety Toy for Specification	CONSUMER SAFETY CHARACTERISTICS SPECIFICATION for game safety	GSO ASTM F963:2021	SASO GSO ASTM F963:2022	36

God willing.

For more details, and to view the approved Saudi standards, you can refer to the authority 's website: sa.gov.saso.www