

## SASO Standards Update

released March 26, 2021

Standard Number		Standard Name	Implementation
<b>New Standards for the Chemical and Petroleum Products Sector</b>			
SASO 2947:2021		Cement waterproof paint	Optional - added to the TR for Paints (Pigments) and Varnishes
SASO 2948:2021		Building glass adhesive films	Optional - added to the TR for Building Materials - Part 2: Insulation and Cladding Materials
SASO 2949:2021		Design and ensure efficiency of plastic scaffolding panels	Optional
SASO 2950:2021		Flat plastic pallets for petrochemical industries	Optional

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Updated	Original		
<b>Updated Standards for the Chemical and Petroleum Products Sector</b>			
SASO 671:2021	SASO 671:2010	Tableware made from melamine plastics	Optional - Updated to the TR for food safety in tools and appliances used in the kitchen
SASO 2888:2021	SASO 2888:2017	Disposable Plastic Tableware	Optional
SASO 2618:2021	SASO 2618:2009	Germicidal Liquid Detergent for general purposes	Optional - Updated to the TR for Detergents
SASO 2619:2021	SASO 2619:2009	Germicidal Liquid Detergent for general purposes - Test methods	Optional
SASO 1951:2021	SASO 1951:2018	Clean Motor Vehicles Gasoline (Low Sulfur)	Optional
SASO 844:2021	SASO 844:2018	Clean Diesel Fuels (Low Sulfur)	Optional
SASO 2263:2021	SASO 2263:2004	Aircraft Turbine Fuel	Optional
SASO 2834:2021	SASO 2834:2011	Paints and Varnishes – Solvent based polyurethane clear	Optional - Updated to the TR for Paints (Pigments) and Varnishes
SASO 2832:2021	SASO 2832:2011	Paints and Varnishes – Polyurethane primer surfacer	Optional
SASO 2839:2021	SASO 2839:2012	Paints and Varnishes – Paint remover	Optional
SASO 2833:2021	SASO 2833:2011	Paints and Varnishes – Solvent based polyurethane paints	Optional
SASO ISO 4437-2:2010	SASO ISO 4437-2:2021:2010	Plastics Piping Systems for the supply of gaseous fuels - Polyethylene (PE) – Part 2: Pipes	Optional

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<b>Adopted Standards for the Chemical and Petroleum Products Sector</b>			
SASO ISO 21702:2021	ISO 21702:2019	Measurement of Antiviral Activity on Plastics and Other Non-Porous Surfaces	Optional - added to the TR for food safety in tools and appliances used in the kitchen
SASO ASTM F2785:2021	ASTM F2785:2018	Standard Specification for Polyamide 12 Gas Pressure Pipe, Tubing, and Fittings	Optional
SASO ASTM D6687:2021	ASTM D6687:2020	Standard Guide for Testing Printing Ink Vehicles and Components Thereof	Optional
SASO ASTM D64713:2021	ASTM D4713:2020	Standard Test Methods for Nonvolatile Content of Heatset and Liquid Printing Ink Systems	Optional
SASO ASTM D4942:2021	ASTM D4942:2020	Standard Test Methods for Water Pickup of Lithographic Printing Inks and Vehicles in a Laboratory Mixer	Optional
SASO ASTM D7188:2021	ASTM D7188:2019	Standard Terminology for Printing Inks, Materials, and Processes	Optional
SASO ASTM D1259:2021	ASTM D1259:2018	Standard Test Methods for Nonvolatile Content of Resin Solutions	Optional
SASO ASTM D4985:2021	ASTM D4985:2015	Standard Specification for Low Silicate Ethylene Glycol Base Engine Coolant for Heavy Duty Engines Requiring a Pre-Charge of Supplemental Coolant Additive (SCA)	Optional
SASO ASTM D6986:2021	ASTM D6986:2020	Standard Test Method for Free Water, Particulate and Other Contamination in Aviation Fuels (Visual Inspection Procedures)	Optional
SASO ASTM D3453:2021	ASTM D3453:2020	Standard Specification for Flexible Cellular Materials; Urethane for Furniture and Automotive Cushioning, Bedding, and Similar Applications	Optional
SASO ASTM D3574:2021	ASTM D3574:2017	Standard Test Methods for Flexible Cellular Materials - Slab, Bonded, and Molded Urethane Foams	Optional
SASO ASTM F852M:2021	ASTM F852M:2020	Standard Specification for Portable Gasoline, Kerosene, and Diesel Containers for Consumer Use	Optional
SASO ASTM D7032:2021	ASTM D7032:2019	Standard Specification for Establishing Performance Ratings for Wood-Plastic Composite and Plastic Lumber Deck Boards, Stair Treads, Guards, and Handrails	Optional
SASO ISO 4437-2:2021:2021	SASO ISO 4437-2:2021:2010	Plastics Piping Systems for the Supply of Gaseous Fuels - Polyethylene (PE) - Part 2: Pipes	Optional

Standard Number		Standard Name	Implementation
<b>New Standards for the Electrical and Electronic Products Sector</b>			
SASO 2947:2021	Cement Waterproof Paint		Optional - added to the TR for Paints (Pigments) and Varnishes
SASO 2948:2021	Building Glass Adhesive Films		Optional - added to the TR for Building Materials - Part 2: Insulation and Cladding Materials
SASO 2949:2021	Design and Ensure Efficiency of Plastic Scaffolding Panels		Optional
SASO 2950:2021	Flat Plastic Pallets for petrochemical industries		Optional

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<b>Adopted Standards for the Electrical and Electronic Products Sector</b>			
SASO IEC 61558-2-4:2021	IEC 61558-2-4:2009	Safety of Transformers, Reactors, Power Supply Units and Similar Products for Supply Voltages up to 1 100 V - Part 2-4: Particular Requirements and Tests for Isolating Transformers and Power Supply Units Incorporating Isolating Transformers	Optional - added to the TR for Electrical Vehicles
SASO IEC 61439-7:2021	IEC 61439-7:2018	Low-Voltage Switchgear and Controlgear Assemblies - Part 7: Assemblies for Specific Applications Such as Marinas, Camping Sites, Market Squares, Electric Vehicle Charging Stations	Optional - added to the TR for Electrical Vehicles
SASO IEC TS 61400-3-1:2021	IEC TS 61400-3-2:2019	Wind Energy Generation Systems - Part 3-2: Design Requirements for Floating Offshore Wind Turbines	Mandatory - implemented in 6 months from the date of Publication
SASO IEC 61400-3-2:2021	IEC TS 61400-3-2:2019	Low-Voltage Switchgear and Controlgear Assemblies - Part 7: Assemblies for Specific Applications Such as Marinas, Camping Sites, Market Squares, Electric Vehicle Charging Stations	Mandatory - implemented in 6 months from the date of Publication
SASO IEC 61400-21-1:2021	IEC 61400-21-1:2019	Wind Energy Generation Systems - Part 21-1: Measurement and Assessment of Electrical Characteristics - Wind Turbines	Mandatory - implemented in 6 months from the date of Publication
SASO IEC TR 61400-21-3:2021	IEC TR 61400-21-3:2019	Wind Energy Generation Systems - Part 21-3: Measurement and Assessment of Electrical Characteristics - Wind Turbine Harmonic Model and its Application	Mandatory - implemented in 6 months from the date of Publication
SASO IEC TS 61400-25-71:2021	IEC TS 61400-25-71:2019	Wind Energy Generation Systems - Part 25-71: Communications for Monitoring and Control of Wind Power Plants - Configuration Description Language	Mandatory - implemented in 6 months from the date of Publication
SASO IEC 61400-24:2021	IEC 61400-24:2019	Wind Energy Generation Systems - Part 24: Lightning Protection	Mandatory - implemented in 6 months from the date of Publication

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<b>New Standards for the Mechanical and Metallic Products Sector</b>		
SASO 2951:2021	School buses - general requirements	Mandatory - implemented starting from 2024 models - Replacement for SASO-GSO-2501

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<b>Updated Standards for the Metrics and Weights Sector</b>			
SASO IEC 62056-46:2021	IEC 62056-46:2007	Electricity metering - Data exchange for meter reading, tariff and load control – Part 46: Data link layer using HDLC protocol	Optional
SASO ISO 17089-1:2021	ISO 17089-1:2019	Measurement of Fluid Flow In Closed Conduits - Ultrasonic Meters For Gas - Part 1: Meters for Custody Transfer and Allocation Measurement	Optional
SASO ISO /TR 9464:2021	ISO /TR 9464:2008	Guidelines for the use of ISO 5167:2003	Optional
SASO ISO 6506-1: 2021	ISO 6506-1: 2014	Metallic materials - Brinell hardness test – Part 1	Optional
SASO ISO 6506-2: 2021	ISO 6506-2: 2017	Metallic materials - Brinell hardness test – Part 2	Optional
SASO ISO 6506-3: 2021	ISO 6506-3:2014	Metallic materials - Brinell hardness test – Part 3	Optional
SASO ISO 6506-3: 2021	ISO 6506-4:2014	Metallic materials - Brinell hardness test – Part 2	Optional
SASO ISO 6507-1: 2021	ISO 6507-1: 2018	Metallic materials - Vickers hardness test – Part 1	Optional
SASO ISO 6507-4: 2021	ISO 6507-4: 2018	Metallic materials - Vickers hardness test – Part 4	Optional
SASO ISO 80000-7:2021	ISO 80000-7:2019	Quantities and units – Part 7: Light	Optional
SASO ISO 80000-9:2021	ISO 80000-9:2019	Quantities and units – Part 9: Physical chemistry and molecular physics	Optional
SASO ISO 80000-10:2021	ISO 80000-10:2019	Quantities and units – Part 10: Atomic and nuclear physics	Optional
SASO ISO 80000-11:2021	ISO 80000-11:2019	Quantities and units – Part 11: Characteristic numbers	Optional
SASO ISO 21413:2007	ISO 21413:2005	-	Optional
SASO ISO 17089-2 :2014	ISO 17089-2:2012	-	Optional
SASO IEC 61672-3 :2014	IEC 61672-3:2013	Electroacoustics - Sound level meters – Part 3: Periodic tests	Optional
SASO IEC 61672-1 :2014	IEC 61672-1:2013	Electroacoustics - Sound level meters – Part 1: Specifications	Optional
SASO IEC 61094-4 :2007	IEC 61094-4:1995	Electroacoustics - Sound level meters – Part 4	Optional

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<b>Adopted Standards for the Metrics and Weights Sector</b>			
SASO BS 959: 2021	BS 959: 2008	Technical specifications of internal micrometers	Optional
SASO IEC 60095-6:2021	IEC 60095-6:2019	Lead Acid Starter Batteries - Part 7: Batteries for Motorcycle Applications	Optional
SASO IEC 60095-7:2021	IEC 60095-7:2019	Lead Acid Starter Batteries - Part 6: General requirements and test methods for motorcycle batteries	Optional
SASO IEC 62056-8-4:2021	IEC 62056-8-4:2018	Electrical energy measurement data exchange	Optional
SASO IEC/TR 63213: 2021	IEC/TR 63213: 2019	Power measurement applications within electrical distribution networks and electrical installations	Optional
SASO ISO 5167-5:2021	ISO 5167-5:2016	Fluid flow measurement by means of pressure differentials inserted into fully functional circular cross-section channels - Part 5: Conical meters	Optional
SASO ISO 5167-6:2021	ISO 5167-6:2019	Fluid flow measurement by means of pressure differentials inserted into fully functional circular cross-section channels - Part 6	Optional
SASO ISO 22158:2021	ISO 22158:2011	Input / Output - Electronic Interfaces for Water Meters - Requirements	Optional
SASO ASTM E74: 2021	ASTM E74: 2018	Standard practices for calibration and verification of force gauges	Optional
SASO OIML D32: 2021	OIML D32: 2018	A guide for implementing the standard specification for evaluating certification bodies in legal metrology - ISO / IEC 17065:2012	Optional
SASO OIML D34: 2021	OIML D34: 2019	Evaluate the conformity of gauges before they are brought to market	Optional

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<b>New Standards for the Construction Products and Building Materials Sector</b>			
SASO ASTM G34:2021	ASTM G34 - 01(2018)e1	Test method for determining the corrosion susceptibility of crusts in aluminum alloys (EXCO test)	Optional
SASO ASTM G47:2021	ASTM G47 - 20	Test method for determining the susceptibility to cracking due to stress corrosion of aluminum alloy products	Optional
SASO ASTM G66:2021	ASTM G66 - 99 (2018)	Test method for visual evaluation of the corrosion susceptibility of crusts in aluminum alloys (ASSET test)	Optional
SASO ASTM G67:2021	ASTM G67 - 18	Test method for determining the susceptibility to corrosion of granularity in aluminum alloys (NAMLT test)	Optional
SASO ASTM E716:2021	ASTM E716 - 16		Optional
SASO ASTM B557M:2021	ASTM B557M - 15	Methods of tensile testing for products made of cast aluminum and magnesium alloys	Optional
SASO ASTM E1251:2021	ASTM E1251 - 17a	Test methods for analyzing aluminum and aluminum alloys by spark atomic emission spectrum	Optional

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<b>Updated Standards for the Construction Products and Building Materials Sector</b>			
SASO ASTM A53/ A53M: 2021	ASTM A53/ A53M	Standard Specification for Carburizing Steels for Anti-Friction Bearings	Optional
SASO ASTM A36/ A36M: 2021	ASTM A36/ A36M	Standard Specification for Carbon Structural Steel	Optional
SASO ASTM A6/ A6M: 2021	ASTM A6/ A6M	Standard Specification for Tin Mill Products, General Requirements	Optional

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<b>Adopted Standards for the Construction Products and Building Materials Sector</b>			
SASO ASTM A108:2021	SASO ASTM A108:2021	Standard specification for carbon and alloy steel bars	Optional
SASO ASTM A502:2021	SASO ASTM A502:2021	Standard specification for structural steel rivets	Optional
SASO ASTM A606/A606M - 18:2021	ASTM A606/A606M - 18	Standard specification for steels, sheets and strips, high-strength, low-alloy, hot-rolled and cold-rolled	Optional
SASO ASTM A847/A847M- 14:2021	ASTM A847/A847M- 14	Standard for cold-formed, welded and non-welded starch tubes of high resistance, low-alloy	Optional
SASO ASTM C1540:2021	ASTM C1540- 18	Standard Specification for Heavy Load Shielded Connections for Cast Iron Pipes	Optional
SASO ASTM A999/A999M- 18:2021	ASTM A999/A999M-18	Standard specification for general requirements for stainless steel alloys and tubes	Optional
SASO ASTM D5759:2021	ASTM D5759 - 12 (2020)	Standard for characterization of fly ash and clean coal fly ash	Optional
SASO ASTM C593:2021	ASTM C593 - 19	Standard for the use of fly ash and pozzolan compounds with lime to stabilize the soil	Optional
SASO ASTM E241:2021	ASTM E241- 20	Standard specification to reduce water damage in buildings	Optional

The following is a list of SASO Standards that have been updated:

Updated Standards for the Chemical and Petroleum Products Sector		
SASO ASTM D86:2020	SASO ASTM D1278:2020	SASO ASTM D2205:2020
SASO ASTM D2369:2020	SASO ASTM D3228:2020	SASO ASTM D3525:2020
SASO ASTM D4054:2020	SASO ASTM D5001:2020	SASO ASTM D5482:2020
SASO ASTM D5712:2020	SASO ASTM D6550:2020	SASO ASTM D6896:2020
SASO ASTM D7216:2020	SASO ASTM D7397:2020	SASO ASTM D7483:2020
SASO ASTM D8048:2020	SASO ASTM F876:2020	SASO ASTM D792:2020
SASO ASTM D1005:2020	SASO ASTM D1485:2020	SASO ASTM D2227:2020
SASO ASTM D2509:2020	SASO ASTM D3606:2020	SASO ASTM D5186:2020
SASO ASTM D5580:2020	SASO ASTM D5817:2020	SASO ASTM D6746:2020
SASO ASTM D7038:2020	SASO ASTM D7110:2020	SASO ASTM D7260:2020
SASO ASTM D7451:2020	SASO ASTM D943:2020	SASO ASTM D1076:2020
SASO ASTM D1742:2020	SASO ASTM D1970M:2020	SASO ASTM D2712:2020
SASO ASTM D3338:2020	SASO ASTM D4001:2020	SASO ASTM D5303:2020
SASO ASTM D5708:2020	SASO ASTM D6377:2020	SASO ASTM D6821:2020
SASO ASTM D7042:2020	SASO ASTM D7214:2020	SASO ASTM D7343:2020
SASO ISO 2176:2020	SASO ISO 16106:2020	SASO ISO 15747:2020
SASO ISO 2176:2020	SASO ISO 18252:2020	SASO ISO 8533:2020
SASO ISO 29862:2020	SASO ISO 29863:2020	SASO ISO 29864:2020

Updated Standards for the Electrical and Electronic Products Sector		
SASO IEC 60076-21:2020	SASO IEC 61293:2020	SASO GSO IEC 61000-3-2:2020
SASO IEC 62368-1:2020	SASO CITC-RI056:2020	SASO IEC 60884-2-5:2020

Updated Standards for the Metrics and Weights Sector		
SASO-ISO-10848-2:2020	SASO ISO/TR 9210:2020	SASO ISO 12917-1:2020
SASO ISO 13694:2020	SASO IEC 60674-2:2020	SASO ISO 10110-7:2020
SASO ISO 10110-8:2020	SASO ISO-11145:2020	SASO ISO 1413:2020
SASO ISO 14135-1:2020	SASO ISO 14135-2:2020	SASO ISO 14880-1:2020
SASO ISO 1683:2020	SASO ISO 20361:2020	SASO ISO ASTM 51205:2020
SASO IEC 60086-3:2020	SASO IEC 60156:2020	SASO ISO 10815:2020
SASO ISO 13473-1:2020	SASO ISO 17201-1:2020	SASO ISO 7626-5:2020

SASO IEC 60243-2:2020	SASO IEC 60318-3:2020	SASO ISO/TR 14999-2:2020
SASO IEC 60370:2020	SASO IEC 60375:2020	SASO ISO GUIDE-35:2020
SASO IEC 60404-13:2020	SASO ISO 8039:2020	SASO IEC 60404-6:2020
SASO ISO 8478:2020	SASO ISO 11381:2020	SASO IEC 60455-2:2020
SASO ISO 9053-1:2020	SASO ISO 12870:2020	SASO IEC 60704-2-1:2020
SASO IEC 60704-2-13:2020	SASO ISO 11843-7:2020	SASO IEC 60990:2020
SASO IEC 61010-2-032:2020	SASO IEC 61010-2-033:2020	SASO IEC 61125:2020
SASO IEC 61260-2:2020	SASO IEC 61265:2020	SASO IEC 61326-3-1:2020
SASO IEC 61326-3-2:2020	SASO IEC 61340-2-1:2020	SASO IEC 61340-2-3:2020
SASO IEC 61340-4-1:2020	SASO IEC 61340-4-3:2020	SASO IEC 61340-4-5:2020
SASO IEC 61340-5-1:2020	SASO IEC 61340-5-3:2020	SASO IEC 61391-1:2020
SASO ISO 9022-1:2020	SASO ISO 10848-4:2020	SASO ISO 9344:2020
SASO IEC 61515:2020	SASO IEC 61520:2020	SASO ISO 10848-1:2020
SASO ISO 10848-3:2020	SASO IEC 61563:2020	SASO ISO 8255-1:2020
SASO ISO 14997:2020	SASO ISO 10939:2020	SASO ISO 8596:2020
SASO ISO 9902-6:2020	SASO ISO 12039:2020	SASO ISO 25178-71:2020
SASO ISO 17201-3:2020	SASO ISO 4037-1:2020	SASO ISO 10553:2020
SASO ISO 16253:2020	SASO ISO 18589-5:2020	SASO ISO 18589-4:2020
SASO ISO 18589-6:2020	SASO ISO 14254:2020	SASO ISO 16610-28:2020
SASO ISO 16610-31:2020	SASO ISO 21484:2020	SASO ISO 10494:2020
SASO IEC 61788-4:2020	SASO IEC 62040-2:2020	SASO ISO 7779:2020
SASO ISO 9211-1:2020	SASO ISO 10110-1:2020	SASO ISO 10110-14:2020
SASO ISO 5130:2020	SASO ISO 21748:2020	SASO IEC 62209-2: 2020
SASO IEC 62232:2020	SASO ISO 14405-2:2020	SASO ISO 5458:2020
SASO ISO 13385-1:2020	SASO ISO 14511:2020	SASO IEC 62244:2020
SASO IEC 62327:2020	SASO ISO 4545-1:2020	SASO ISO 4545-3:2020
SASO ISO 4545-4:2020	SASO ISO 4545-2:2020	SASO IEC 62359:2020
SASO IEC 62401:2020	SASO ISO 6416:2020	SASO ISO 26101:2020
SASO ISO 6420:2020	SASO ISO 8368:2020	SASO ISO 9123:2020
SASO ISO 3740:2020	SASO ISO 3743-2:2020	SASO ISO 17359:2020
SASO ISO 10936-1:2020	SASO ISO 14133-2:2020	SASO ISO 10938:2020
SASO ISO 14490-5:2020	SASO ISO 14490-7:2020	SASO ISO 11554:2020
SASO ISO 13653:2020	SASO ISO/CIE 11664-1:2020	SASO ISO 16331-1:2020
SASO ISO 17123-5:2020	SASO ISO 18589-1:2020	SASO IEC TR 60865-2:2020

SASO IEC TR 61340-5-2:2020	SASO IEC TR 62669:2020	SASO EC TS 61244-1:2020
SASO IEC TS 61244-2:2020	SASO ISO 13325:2020	SASO ISO 12123:2020
SASO IEC TS 62370:2020	SASO ISO 3822-3:2020	SASO ISO 13304-1:2020
	SASO ISO 10276:2020	
<b>Updated Standards for the Construction Products and Building Materials Sector</b>		
SASO ASTM C11:2020	SASO ASTM C28/C28M:2020	SASO ASTM C35:2020
SASO ASTM C472:2020	SASO ASTM C595/C595M:2020	SASO ASTM C51:2020
SASO ASTM C109/C109M:2020	SASO ASTM C150/C150M:2020	SASO ASTM C183/C183M:2020
SASO ASTM C185:2020	SASO ASTM C187:2020	SASO ASTM C191:2020
SASO ASTM C219:2020	SASO ASTM C226:2020	SASO ASTM C311/C311M:2020
SASO ASTM C1157/C1157M:2020	SASO ASTM A184/A184M:2020	SASO ASTM A1046/A1046M:2020
SASO ASTM A568/A568M:2020	SASO ASTM A1063/A1063M:2020	SASO ASTM A588/A588M:2020
SASO ASTM A913/A913M:2020	SASO ASTM A416M:2020	SASO ASTM A775/A775M :2020
SASO ASTM C928:2020	SASO ASTM C309:2020	