Hydrogen standardization landscape - Technical Committees and Standards

Technical Committee	Standard	Current edition	Status	Title	VA or FA with	Lead Cluster* (orange)	Subcluster (blau)	Supporting Cluster
CEN/CLC/JTC 6	CEN ISO/TS 15916	2026		Hydrogen technologies - Basic considerations for the safety of hydrogen systems (ISO/TS 15916:2026)		Quality, safety, sustainability	Safety	
CEN/CLC/JTC 6	EN ISO 19870-1		under development	Hydrogen technologies - Methodology for determining the greenhouse gas emissions associated with the hydrogen supply chain - Part 1: Emissions associated with the production of hydrogen to production gate (ISO/DIS 19870-1:2025)	ISO/TC 197	Quality, safety, sustainability	Sustainability/Environment/GHG/Guarantee of origin	
CEN/CLC/JTC 6	EN ISO/TS 19870-2		under development	Hydrogen technologies — Methodology for determining the greenhouse gas emissions — Part 2: Emissions associated with the conditioning and transport of liquid hydrogen up to consumption gate	ISO/TC 197	Quality, safety, sustainability	Sustainability/Environment/GHG/Guarantee of origin	
CEN/CLC/JTC 6	EN ISO/TS 19870-3		under development	Hydrogen technologies — Methodology for determining the greenhouse gas emissions — Part 3: Emissions associated with the bi-directional conversion of hydrogen to ammonia and back, and transport of ammonia and hydrogen up to consumption gate	ISO/TC 197	Quality, safety, sustainability	Sustainability/Environment/GHG/Guarantee of origin	
CEN/CLC/JTC 6	EN ISO/TS 19870-4		under development	Hydrogen technologies — Methodology for determining the greenhouse gas emissions — Part 4: Emissions associated with the bi-directional conditioning of hydrogen into LOHC and back, and transport of LOHC and hydrogen up to consumption gate	ISO/TC 197	Quality, safety, sustainability	Sustainability/Environment/GHG/Guarantee of origin	
CEN/CLC/JTC 6	EN ISO 22734-1	2025		Hydrogen generators using water electrolysis — Part 1: General requirements, test protocols and safety requirements	ISO/TC 197	Hydrogen production	Power to H2: Electrolysis	
	ISO/TS 22734-2		under development	Hydrogen generators using water electrolysis — Part 2: Testing guidance for performing electricity grid service		Hydrogen production	Power to H2: Electrolysis	Energy sector integration
CEN/CLC/JTC 6	EN ISO 24078	2025		Hydrogen in energy systems - Vocabulary (ISO 24078:2025)	ISO/TC 197	Quality, safety, sustainability	Terminology	
CEN/CLC/JTC 6	CEN/TS (WI J006004)		under development	Hydrogen Gas Safety in Enclosed Spaces		Quality, safety, sustainability	Safety	Building/residential application
CEN/CLC/JTC 6	ISO 25666		under development	Safety requirements for liquid hydrogen maritime onshore terminal	ISO/TC 197	Quality, safety, sustainability	Safety	Transport and Mobility
CEN/CLC/JTC 6	ISO 27076		under development	Hydrogen technologies — Sustainability criteria for hydrogen production	ISO/TC 197	Quality, safety, sustainability	Sustainability/Environment/GHG/Guarantee of origin	
CEN/CLC/JTC 14	EN 16325	2025		Guarantees of origin related to energy		Quality, safety, sustainability	Sustainability/Environment/GHG/Guarantee of origin	
CEN/CLC/JTC 17	EN 50465	2015		Gas appliances - Combined heat and power appliance of nominal heat input inferior or equal to 70 kW		Building/ Residential application	Heating & Cooling	Industrial applications
CEN/CLC/JTC 17	EN 50465+A1	2019		Gas appliances - Combined heat and power appliance of nominal heat input inferior or equal to 70 kW		Building/ Residential application	Heating & Cooling	Industrial applications
CEN/CLC/JTC 17	EN 62282-3-400	2026		Gas appliances – Combined heat and power appliance of nominal heat input inferior or equal to 70 kW		Building/ Residential application	Heating & Cooling	
CEN/TC 12	EN 13942	2009		Petroleum and natural gas industries - Pipeline transportation systems - Pipeline valves (ISO 14313:2007 modified)	ISO/TC 67/SC 2	Hydrogen network	Transmission	
CEN/TC 23	EN 720-1	1999		Transportable gas cylinders - Gases and gas mixtures - Part 1: Properties of pure gases		Transport and Mobility	Waterborne transport	
CEN/TC 23	EN 1089-3			Transportable gas cylinders - Gas cylinder identification (excluding LPG) - Part 3: Colour coding		Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN ISO 11117	2019	under amendment	Gas cylinders — Valve protection caps and guards — Design, construction and tests		Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN ISO 7866+A2	2025		Gas cylinders - Refillable seamless aluminium alloy gas cylinders - Design, construction and testing	ISO/TC 58	Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN ISO 9809-1	2019		Gas cylinders — Design, construction and testing of refillable seamless steel gas cylinders and tubes — Part 1: Quenched and tempered steel cylinders and tubes with tensile strength less than 1 100 Mpa	ISO/TC 58/SC 3	Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN ISO 9809-2	2019		Gas cylinders — Design, construction and testing of refillable seamless steel gas cylinders and tubes — Part 2: Quenched and tempered steel cylinders and tubes with tensile strength greater than or equal to 1 100 Mpa	ISO/TC 58/SC 3	Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN ISO 9809-3	2019		Gas cylinders — Design, construction and testing of refillable seamless steel gas cylinders and tubes — Part 3: Normalized steel cylinders and tubes	ISO/TC 58/SC 3	Transport and Mobility	Transport of hydrogen	

Technical Committee	Standard	Current edition	Status	Title	VA or FA with	Lead Cluster* (orange)	Subcluster (blau)	Supporting Cluster
CEN/TC 23	EN ISO 9809-4	2026		Gas cylinders — Design, construction and testing of refillable seamless steel gas cylinders and tubes — Part 4: Stainless steel cylinders with an R m value of less than 1 100 Mpa	ISO/TC 58/SC 3	Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN ISO 10286	2025		Gas cylinders - Vocabulary (ISO/FDIS 10286:2025)	ISO/TC 58	Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN ISO 10297	2024		Gas cylinders — Cylinder valves — Specification and type testing	ISO/TC 58	Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN ISO 10961	2019		vGas cylinders - Cylinder bundles - Design, manufacture, testing and inspection (ISO 10961:2019)		Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN ISO 11114-1	2020		Gas cylinders — Compatibility of cylinder and valve materials with gas contents — Part 1: Metallic materials	ISO/TC 58	Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN ISO 11114-2	2021		Gas cylinders — Compatibility of cylinder and valve materials with gas contents — Part 2: Non-metallic materials	ISO/TC 58	Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN ISO 11114-3	2010		Gas cylinders — Compatibility of cylinder and valve materials with gas contents — Part 3: Autogenous ignition test for non-metallic materials in oxygen atmosphere	ISO/TC 58	Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN ISO 11114-4	2017		Transportable gas cylinders — Compatibility of cylinder and valve materials with gas contents — Part 4: Test methods for selecting steels resistant to hydrogen embrittlement	ISO/TC 58	Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN ISO 11114-5	2022		Gas cylinders — Compatibility of cylinder and valve materials with gas contents — Part 5: Test methods for evaluating plastic liners	ISO/TC 58	Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN ISO 11114-6	2022		Gas cylinders — Compatibility of cylinder and valve materials with gas contents — Part 6: Oxygen pressure surge testing	ISO/TC 58	Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN ISO 11117	2019		Gas cylinders — Valve protection caps and guards — Design, construction and tests	ISO/TC 58	Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN ISO 11120	2015		Gas cylinders. Refillable seamless steel tubes of water capacity between 150 l and 3000 l. Design, construction and testing	ISO/TC 58	Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN ISO 11363-1+A1	2023		Gas cylinders - 17E and 25E taper threads for connection of valves to gas cylinders - Part 1: Specifications - Amendment 1 (ISO 11363-1:2018/Amd 1:2023)		Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN ISO 11363-2	2017		Gas cylinders - 17E and 25E taper threads for connection of valves to gas cylinders - Part 2: Inspection gauges (ISO 11363-2:2017)		Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN ISO 11621	2005		Gas cylinders - Procedures for change of gas service (ISO 11621:1997)		Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN ISO 11623	2023		Gas cylinders - Composite construction - Periodic inspection and testing	ISO/TC 58	Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN ISO 11755	2020		Gas cylinders - Cylinder bundles for compressed and liquefied gases (excluding acetylene) - Inspection at time of filling (ISO 11755:2005)		Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN 12245+A1	2022	under amendment	Transportable gas cylinders - Fully wrapped composite cylinders		Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN 12257	2002		Transportable gas cylinders - Seamless, hoop-wrapped composite cylinders		Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN 12862	2000		Transportable gas cylinders - Specification for the design and construction of refillable transportable welded aluminium alloy gas cylinders		Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN 13293	2002		Transportable gas cylinders - Specification for the design and construction of refillable transportable seamless normalised carbon manganese steel gas cylinders of water capacity up to 0,5 litre for compressed, liquefied and dissolved gases and up to 1 litre for carbon dioxide		Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN 13322-1	2024		Transportable gas cylinders - Refillable welded steel gas cylinders - Design and construction - Part 1: Carbon steel		Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN 13322-2+A1	2006		Transportable gas cylinders - Refillable welded steel gas cylinders - Design and construction - Part 2: Stainless steel		Transport and mobility	Transport of hydrogen	
CEN/TC 23	EN ISO 13341	2025		Gas cylinders - Fitting of valves to gas cylinders (ISO 13341:2025)		Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN 13365+A1	2005		Transportable gas cylinders - Cylinder bundles for permanent and liquefied gases (excluding acetylene) - Inspection at time of filling		Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN 13385	2025		Transportable gas cylinders - Battery vehicles for permanent and liquefied gases (excluding acetylene) - Inspection at the time of filling		Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN 13807	2026		Transportable gas cylinders - Battery vehicles and multiple-element gas containers (MEGCs) - Design, manufacture, identification and testing		Transport and Mobility	Transport of hydrogen	

Technical Committee	Standard	Current edition	Status	Title	VA or FA with	Lead Cluster* (orange)	Subcluster (blau)	Supporting Cluster
CEN/TC 23	EN 14208	2004		Transportable gas cylinders - Specification for welded pressure drums up to 1000 litre capacity for the transport of gases - Design and construction		Transport and Mobility	Waterborne transport	
CEN/TC 23	EN ISO 14246	2022/Amd1:2025		Gas cylinders - Cylinder valves - Manufacturing tests and examinations (ISO 14246:2022)		Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN 14513	2005		Transportable gas cylinders - Bursting disc pressure relief devices (excluding acetylene gas cylinders)		Transport and Mobility	Waterborne transport	Cross-cutting
CEN/TC 23	EN 14638-3	2010		Transportable gas cylinders - Refillable welded receptacles of a capacity not exceeding 150 litres - Part 3: Welded carbon steel cylinders made to a design justified by experimental methods		Transport and Mobility	Waterborne transport	
CEN/TC 23	EN ISO 15245-1	2021		Gas cylinders - Parallel threads for connection of valves to gas cylinders - Part 1: Specification (ISO 15245-1:2021)		Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN ISO 15245-2	2001		Gas cylinders - Parallel threads for correction of valves to gas cylinders - Part 2: Gauge inspection (ISO 15245-2:2001)		Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN ISO 15996	2017		Gas cylinders - Residual pressure valves - Specification and type testing of cylinder valves incorporating residual pressure devices (ISO 15996:2017)		Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN ISO 16148	2016		Gas cylinders - Refillable seamless steel gas cylinders and tubes - Acoustic emission examination (AT) and follow-up ultrasonic examination (UT) for periodic inspection and testing		Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN 16509	2014		Transportable gas cylinders. Non-refillable, small transportable, steel cylinders of capacities up to and including 120 ml containing compressed or liquefied gases (compact cylinders). Design, construction, filling and testing		Transport and Mobility	Waterborne transport	
CEN/TC 23	EN 16753	2016		Gas cylinders - Periodic inspection and testing, in situ (without dismantling) of refillable seamless steel tubes of water capacity between 150 l and 3 000 l, used for compressed gases		Transport and Mobility	Transport of hydrogen	Hydrogen network
CEN/TC 23	EN ISO 16964	2020		Gas cylinders - Flexible hoses assemblies - Specification and testing (ISO 16964:2019)		Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN 17339	2024	under amendment	Transportable gas cylinders – Hoop wrapped and fully wrapped carbon composite cylinders and tubes for hydrogen		Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN 17533	2025		Gaseous hydrogen - Cylinders and tubes for stationary storage		Hydrogen network	Storage	
CEN/TC 23	EN ISO 17871	2020		Gas cylinders - Quick-release cylinder valves - Specification and type testing (ISO 17871:2020)		Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN ISO 18119	2018	under revision	Gas cylinders - Seamless steel and seamless aluminium-alloy gas cylinders and tubes - Periodic inspection and testing	ISO/TC 58	Transport and Mobility	Transport of hydrogen	Hydrogen network
CEN/TC 23	EN ISO 20475	2020		Gas cylinders - Cylinder bundles - Periodic inspection and testing (ISO 20475:2018)		Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN ISO 22434	2022		Gas cylinders - Inspection and maintenance of valves (ISO 22434:2022)		Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN ISO 22435	2024		Gas cylinders - Cylinder valves with integrated pressure regulators - Specification and type testing (ISO 22435:2024)		Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN ISO 23826	2021		Gas cylinders — Ball valves — Specification and testing	ISO/TC 58/SC 2	Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN ISO 24431	2016		Gas cylinders - Seamless, welded and composite cylinders for compressed and liquefied gases (excluding acetylene) - Inspection at time of filling (ISO 24431:2016)		Transport and Mobility	Transport of hydrogen	
CEN/TC 23	EN ISO 25760	2015		Gas cylinders - Operational procedures for the safe removal of valves from gas cylinders (ISO 25760:2009)		Transport and Mobility	Transport of hydrogen	
CEN/TC 23	ISO 14456	2024		Gas cylinders - Gas properties and associated classification (FTSC) codes (ISO 14456:2024)		Transport and Mobility	Transport of hydrogen	
CEN/TC 48	EN 26	2023	under revision	Gas-fired instantaneous water heaters for the production of domestic hot water		Building/ Residential application	Heating & Cooling	
CEN/TC 48	EN 89	2015	under revision	Gas-fired storage water heaters for the production of domestic hot water		Building/ Residential application	Appliances	
CEN/TC 48	EN 89		under development	Gas-fired storage water heaters for the production of domestic hot water		Building/ Residential application	Appliances	
CEN/TC 49	EN 30 (series)			Domestic cooking appliances burning gas		Building/ Residential application	Heating & Cooling	
CEN/TC 54	EN 764-1	2016		Pressure equipment - Part 1: Vocabulary		Industrial applications	Industrial processes	
CEN/TC 54	EN 764-2	2012		Pressure equipment - Part 2: Quantities, symbols and units		Industrial applications	Industrial processes	
CEN/TC 54	EN 764-4	2014		Pressure equipment - Part 4: Establishment of technical delivery conditions for metallic materials		Industrial applications	Industrial processes	

Technical Committee	Standard	Current edition	Status	Title	VA or FA with	Lead Cluster* (orange)	Subcluster (blau)	Supporting Cluster
CEN/TC 54	EN 764-5	2014		Pressure equipment - Part 5: Inspection documentation of metallic materials and compliance with the material specification		Industrial applications	Industrial processes	
CEN/TC 54	EN 764-7	2002		Pressure equipment - Part 7: Safety systems for unfired pressure equipment		Industrial applications	Industrial processes	
CEN/TC 54	EN 13445-1	2021	under amendment	Unfired pressure vessels - Part 1: General		Hydrogen network	Storage	Mobility
CEN/TC 54	EN 13445-10	2021		Unfired pressure vessels - Part 10: Additional requirements for pressure vessels of nickel and nickel alloys		Hydrogen network	Storage	Mobility
CEN/TC 54	EN 13445-11	2024		Unfired pressure vessels - Part 11: Additional requirements for pressure vessels of titanium and titanium alloys		Hydrogen network	Storage	Mobility
CEN/TC 54	EN 13445-12		under development	Unfired pressure vessels - Part 12: Additional requirements for pressure vessels of copper and copper alloys		Hydrogen network	Storage	Mobility
CEN/TC 54	EN 13445-14		under development	Unfired pressure vessels - Part 14: Additional requirements for pressure equipment and pressure components fabricated with additive manufacturing methods		Hydrogen network	Storage	Mobility
CEN/TC 54	EN 13445-2+A1	2023	under amendment	Unfired pressure vessels - Part 2: Materials		Hydrogen network	Storage	Mobility
CEN/TC 54	EN 13445-3	2021		Unfired pressure vessels - Part 3: Design		Hydrogen network	Storage	Mobility
CEN/TC 54	EN 13445-3+A1	2025		Unfired pressure vessels - Part 3: Design		Transport and Mobility	Transport of hydrogen	
CEN/TC 54	EN 13445-4+A1	2023		Unfired pressure vessels - Part 4: Fabrication		Hydrogen network	Storage	Mobility
CEN/TC 54	EN 13445-5		under revision	Unfired pressure vessels - Part 5: Inspection and testing		Hydrogen network	Storage	
CEN/TC 54	EN 13445-5+A1	2024		Unfired pressure vessels - Part 6: Requirements for the design and fabrication of pressure vessels and pressure parts constructed from spheroidal graphite cast iron		Hydrogen network	Storage	Mobility
CEN/TC 54	EN 13445-6	2021		Unfired pressure vessels - Part 6: Requirements for the design and fabrication of pressure vessels and pressure parts constructed from spheroidal graphite cast iron		Hydrogen network	Storage	Mobility
CEN/TC 54	EN 13445-8	2021	under amendment	Unfired pressure vessels - Part 8: Additional requirements for pressure vessels of aluminium and aluminium alloys		Hydrogen network	Storage	Mobility
CEN/TC 54	CEN/TR 764-6	2012		Pressure equipment - Part 6: Structure and content of operating instructions		Industrial applications	Industrial processes	
CEN/TC 54	CEN/TR 13445-9	2011		Unfired pressure vessels - Part 9: Conformance of the EN 13445 series to ISO 16528		Hydrogen network	Storage	Mobility
CEN/TC 57	EN 303-1	2017		Heating boilers - Part 1: Heating boilers with forced draught burners - Terminology, general requirements, testing and marking		Building/ Residential application	Heating & Cooling	
CEN/TC 57	EN 303-2	2017	under revision	Heating boilers - Part 2: Heating boilers with forced draught burners - Special requirements for boilers with atomizing oil burners		Building/ Residential application	Heating & Cooling	
CEN/TC 57	EN 303-2		under development	Heating boilers - Part 2: Heating boilers with forced draught burners - Special requirements for boilers with atomizing oil burners		Building/ Residential application	Heating & Cooling	
CEN/TC 57	EN 303-4	1999		Heating boilers - Part 4: Heating boilers with forced draught burners - Special requirements for boilers with forced draught oil burners with outputs up to 70 kW and a maximum operating pressure of 3 bar - Terminology, special requirements, testing and marking		Building/ Residential application	Heating & Cooling	
CEN/TC 57	EN 303-5	2021		Heating boilers - Part 5: Heating boilers for solid fuels, manually and automatically stoked, nominal heat output of up to 500 kW - Terminology, requirements, testing and marking		Building/ Residential application	Heating & Cooling	
CEN/TC 57	EN 303-6	2019	under amendment	Heating boilers - Part 6: Heating boilers with forced draught burners - Specific requirements for the domestic hot water operation and energy performance of water heaters and combination boilers with atomizing oil burners of nominal heat input not exceeding 70 kW		Building/ Residential application	Heating & Cooling	
CEN/TC 57	EN 14394+A1	2008		Heating boilers - Heating boilers with forced draught burners - Nominal heat output not exceeding 10 MW and maximum operating temperature of 110 °C		Industrial applications	Heating & Cooling	
CEN/TC 58	EN 125+A1	2024		Flame supervision devices for gas burning appliances - Thermoelectric flame supervision devices		Building/ Residential application	Heating & Cooling	
CEN/TC 58	EN 126	2025		Safety and control devices for burners and appliances burning gaseous fuels - Multifunctional controls		Building/ Residential application	Safety Aspects	
CEN/TC 58	EN 298	2022		Automatic burner control systems for burners and appliances burning gaseous or liquid fuels		Industrial applications	Industrial processes	

Technical Committee	Standard	Current edition	Status	Title	VA or FA with	Lead Cluster* (orange)	Subcluster (blau)	Supporting Cluster
CEN/TC 58	EN 12067-2	2022		Safety and control devices for burners and appliances burning gaseous or liquid fuels - Control functions in electronic systems - Part 2: Fuel/air ratio control / supervision of the electronic type		Industrial applications	Industrial processes	Residential application
CEN/TC 58	EN 13611	2021	under revision	Safety and control devices for burners and appliances burning gaseous and/or liquid fuels - General requirements		Industrial applications	Industrial processes	Residential application
CEN/TC 58	EN 16340	2014		Safety and control devices for burners and appliances burning gaseous or liquid fuels - Combustion product sensing devices		Industrial applications	Industrial processes	Residential application
CEN/TC 58	CEN/TR 17924	2025		Safety and control devices for burners and appliances burning gaseous and/or liquid fuels - Guidance on hydrogen specific aspects		Building/ Residential application	Safety Aspects	
CEN/TC 62	EN 613	2021		Independent closed-fronted gas-fired type B11, type C11, type C31 and type C91 heaters		Building/ Residential application	Heating & Cooling	
CEN/TC 62	EN 14829	2007		Independent gas-fired flueless space heaters for nominal heat input not exceeding 6 kW		Building/ Residential application	Heating & Cooling	
CEN/TC 69	EN ISO 4126 (series)			Safety devices for protection against excessive pressure	ISO/TC 185	Quality, safety, sustainability	Safety	
CEN/TC 69	EN 12266-1	2012		Industrial valves — Testing of valves — Part 1: Pressure tests, test procedures and acceptance criteria - Mandatory requirements		Hydrogen network	Distribution	
CEN/TC 69	EN 13774	2013		Valves for gas distribution systems with maximum operating pressure less than or equal to 16 bar - Performance requirements -		Hydrogen network	Distribution	
CEN/TC 69	EN ISO 15848 (series)			Industrial valves - Measurement, test and qualification procedures for fugitive emissions	ISO/TC 153	Hydrogen network	Distribution	
CEN/TC 69	ISO 12101	2025		Industrial valves — Measurement, test and qualification procedures for fugitive emissions — Classification system and qualification procedures for type testing of stem seals for valves		Hydrogen network	Distribution	
CEN/TC 104	ISO 13315-2	2025		Environmental management for concrete and concrete structures — Part 2: System boundary and inventory data		Quality, safety, sustainability	Sustainability/Environment/GHG/Guarantee of origin	
CEN/TC 106	EN 203 (series)			Gas heated catering equipment		Building/ Residential application	Appliances	
CEN/TC 109	EN 303-3	2006	amended and corrected	Heating boilers - Part 3: Gas-fired central heating boilers - Assembly comprising a boiler body and a forced draught burner		Industrial applications	Heating & Cooling	
CEN/TC 109	EN 15502 (series)			Gas-fired heating boilers		Building/ Residential application	Heating & Cooling	
CEN/TC 109	EN 15502 (series)			Gas-fired heating boilers		Building/ Residential application	Heating & Cooling	
CEN/TC 109	EN 15502-2-7		under development	Heating boilers - Part 2-7: Specific standard for gas-fired central heating units		Building/ Residential application	Heating & Cooling	
CEN/TC 109	CEN/TS 15502-3-1	2024		Gas-fired central heating boilers - Part 3-1: H2NG and ACCF - Expansion of EN 15502-2-1:2022		Building/ Residential application	Heating & Cooling	
CEN/TC 109	CEN/TS 15502-3-3		under development	Gas-fired central heating boilers — Part 3-3: Hydrogen — Expansion of EN 15502-2-1:2022		Building/ Residential application	Heating & Cooling	
CEN/TC 109	CEN/TS 15502-3-4		under development	Gas-fired central heating boilers — Part 3-4 (official part title to be confirmed)		Building/ Residential application	Heating & Cooling	
CEN/TC 131	EN 676	2020		Forced draught burners for gaseous fuels		Industrial applications	Industrial processes	Industrial application
CEN/TC 155	EN 1555-1	2025		Plastics piping systems for the supply of gaseous fuels - Polyethylene (PE) - Part 1: General		Hydrogen network	Distribution	
CEN/TC 155	EN 1555-2	2025		Plastics piping systems for the supply of gaseous fuels - Polyethylene (PE) - Part 2: Pipes		Hydrogen network	Distribution	
CEN/TC 155	EN 1555-3	2025		Plastics piping systems for the supply of gaseous fuels - Polyethylene (PE) - Part 3: Fittings		Hydrogen network	Distribution	
CEN/TC 155	EN 1555-4	2025		Plastics piping systems for the supply of gaseous fuels - Polyethylene (PE) - Part 4: Valves		Hydrogen network	Distribution	
CEN/TC 155	EN 1555-5	2021	under revision	Plastics piping systems for the supply of gaseous fuels - Polyethylene (PE) - Part 5: Fitness for purpose of the system		Hydrogen network	Distribution	
CEN/TC 155	EN ISO 10931	2015		Plastics piping systems for industrial applications - Poly(vinylidene fluoride) (PVDF) - Specifications for components and the system (ISO 10931:2005/FDAM 1:2015)	ISO/TC 138/ SC 3	Hydrogen network	Distribution	
CEN/TC 155	EN ISO 15493	2017		Plastics piping systems for industrial applications — Acrylonitrile-butadiene-styrene (ABS), unplasticized poly(vinyl chloride) (PVC-U) and chlorinated poly(vinyl chloride) (PVC-C) — Specifications for components and the system — Metric series	ISO/TC 138/ SC 3	Hydrogen network	Distribution	

Technical Committee	Standard	Current edition	Status	Title	VA or FA with	Lead Cluster* (orange)	Subcluster (blau)	Supporting Cluster
CEN/TC 155	EN ISO 15494	2018	under revision	Plastics piping systems for industrial applications - Polybutene (PB), polyethylene (PE), polyethylene of raised temperature resistance (PE-RT), crosslinked polyethylene (PE-X), polypropylene (PP) - Metric series for specifications for components and the system (ISO 15494:2015)	ISO/TC 138/ SC 3	Hydrogen network	Distribution	
CEN/TC 155	EN ISO 16486-1	2023		Plastics piping systems for the supply of gaseous fuels — Unplasticized polyamide (PA-U) piping systems with fusion jointing and mechanical jointing — Part 1: General	ISO/TC 138/ SC 4	Hydrogen network	Distribution	
CEN/TC 155	EN ISO 16486-2	2024		Plastics piping systems for the supply of gaseous fuels — Unplasticized polyamide (PA-U) piping systems with fusion jointing and mechanical jointing — Part 2: Pipes	ISO/TC 138/ SC 4	Hydrogen network	Distribution	
CEN/TC 155	EN ISO 16486-3	2025	under amendment	Plastics piping systems for the supply of gaseous fuels — Unplasticized polyamide (PA-U) piping systems with fusion jointing and mechanical jointing — Part 3: Fittings	ISO/TC 138/ SC 4	Hydrogen network	Distribution	
CEN/TC 155	EN ISO 16486-4	2025		Plastics piping systems for the supply of gaseous fuels — Unplasticized polyamide (PA-U) piping systems with fusion jointing and mechanical jointing — Part 4: Valves	ISO/TC 138/ SC 4	Hydrogen network	Distribution	
CEN/TC 155	EN ISO 16486-5	2021		Plastics piping systems for the supply of gaseous fuels — Unplasticized polyamide (PA-U) piping systems with fusion jointing and mechanical jointing — Part 5: Fitness for purpose of the system	ISO/TC 138/ SC 4	Hydrogen network	Distribution	
CEN/TC 155	EN ISO 16486-7	2023		Plastics piping systems for the supply of gaseous fuels — Unplasticized polyamide (PA-U) piping systems with fusion jointing and mechanical jointing — Part 7: Assessment of conformity	ISO/TC 138/ SC 4	Hydrogen network	Distribution	
CEN/TC 155	CEN/TS 1555-7	2021		Plastics piping systems for the supply of gaseous fuels - Polyethylene (PE) - Part 7: Guidance for the assessment of conformity		Hydrogen network	Distribution	
CEN/TC 180	EN 416	2019		Gas-fired overhead radiant tube heaters and radiant tube heater systems for non-domestic use - Safety and energy efficiency		Building/ Residential application	Safety Aspects	
CEN/TC 180	EN 419	2019		Gas-fired overhead luminous radiant heaters for non-domestic use - Safety and energy efficiency		Industrial applications	Heating & Cooling	
CEN/TC 180	EN 17082	2019		Domestic and non-domestic gas-fired forced convection air heaters for space heating not exceeding a net heat input of 300 kW		Industrial applications	Heating & Cooling	
CEN/TC 186	EN 746-1	2009		Industrial thermoprocessing equipment - Part 1: Common safety requirements for industrial thermoprocessing equipment		Industrial applications	H2 to power and fuel cell	
CEN/TC 186	EN 746-3	2021		Industrial thermoprocessing equipment - Part 3: Safety requirements for the generation and use of atmosphere gases		Industrial applications	Industrial processes	
CEN/TC 186	EN 746-4	2000		Industrial thermoprocessing equipment - Part 4: Particular safety requirements for hot dip galvanising thermoprocessing equipment		Industrial applications	Industrial processes	
CEN/TC 186	EN 746-5	2000		Industrial thermoprocessing equipment - Part 5: Particular safety requirements for salt bath thermoprocessing equipment		Industrial applications	Industrial processes	
CEN/TC 186	EN 746-8	2000		Industrial thermoprocessing equipment - Part 8: Particular safety requirements for quenching equipment		Industrial applications	Industrial processes	
CEN/TC 186	EN ISO 13577-2	2023		Industrial furnaces and associated processing equipment — Safety — Part 2: Combustion and fuel handling systems	ISO/TC 244	Industrial applications	Industrial processes	
CEN/TC 186	EN ISO 13577-4	2022		Industrial furnaces and associated processing equipment — Safety — Part 4: Protective systems	ISO/TC 244	Industrial applications	Industrial processes	
CEN/TC 208	EN 377	1996		Lubricants for applications in appliances and associated controls using combustible gases except those designed for use in industrial processes		Building/ Residential application	Appliances	
CEN/TC 208	EN 549+A2	2024	under amendment	Rubber materials for seals and diaphragms for gas appliances and gas equipment		Building/ Residential application	Appliances	
CEN/TC 208	EN 682	2002	under revision	Elastomeric seals - Materials requirements for seals used in pipes and fittings carrying gas and hydrocarbon fluids		Hydrogen network	Transmission	

Technical Committee	Standard	Current edition	Status	Title	VA or FA with	Lead Cluster* (orange)	Subcluster (blau)	Supporting Cluster
CEN/TC 208	EN 751-1	1996		Sealing materials for metallic threaded joints in contact with 1st, 2nd and 3rd family gases and hot water - Part 1: Anaerobic jointing compounds		Hydrogen network	Transmission	
CEN/TC 208	EN 751-2	1996		Sealing materials for metallic threaded joints in contact with 1st, 2nd and 3rd family gases and hot water - Part 2: Non-hardening jointing compounds		Hydrogen network	Transmission	
CEN/TC 208	EN 751-3+A1	2023		Sealing materials for metallic threaded joints in contact with 1st, 2nd and 3rd family gases and hot water - Part 3: Unsintered PTFE tapes and PTFE strings		Hydrogen network	Transmission	
CEN/TC 208	EN 13090	2000		Means for resealing threaded joints of gas pipework in buildings		Building/ Residential application	Appliances	
CEN/TC 232	EN 1012-3	2013		Compressors and vacuum pumps - Safety requirements - Part 3: Process compressors		Hydrogen network	Transmission	
CEN/TC 234	EN 1594	2024	under amendment	Gas infrastructure - Pipelines for maximum operating pressure over 16 bar - Functional requirements		Hydrogen network	Transmission	
CEN/TC 234	EN 1775	2007		Gas supply - Gas pipework for buildings - Maximum operating pressure less than or equal to 5 bar - Functional recommendations		Hydrogen network	Distribution	
CEN/TC 234	EN 1776	2025		Gas infrastructure - Gas measuring systems - Functional requirements		Hydrogen network	Distribution	
CEN/TC 234	EN 1918-1	2016	under revision	Gas infrastructure - Underground gas storage - Part 1: Functional recommendations for storage in aquifers		Hydrogen network	Storage	
CEN/TC 234	EN 1918-2	2016	under revision	Gas infrastructure - Underground gas storage - Part 2: Functional recommendations for storage in oil and gas fields		Hydrogen network	Storage	
CEN/TC 234	EN 1918-3	2016	under revision	Gas infrastructure - Underground gas storage - Part 3: Functional recommendations for storage in solution-mined salt caverns		Hydrogen network	Storage	
CEN/TC 234	EN 1918-4	2016	under revision	Gas infrastructure - Underground gas storage - Part 4: Functional recommendations for storage in rock caverns		Hydrogen network	Storage	
CEN/TC 234	EN 1918-5	2016	under revision	Gas infrastructure - Underground gas storage - Part 5: Functional recommendations for surface facilities		Hydrogen network	Storage	
CEN/TC 234	EN 12007 (series)			Gas infrastructure - Pipelines for maximum operating pressure up to and including 16 bar		Hydrogen network	Transmission	
CEN/TC 234	EN 12186	2025		Gas infrastructure - Gas pressure regulating stations for transmission and distribution - Functional requirements		Hydrogen network	Transmission	
CEN/TC 234	EN 12279+A1	2005		Gas supply systems - Gas pressure regulating installations on service lines - Functional requirements		Hydrogen network	Distribution	
CEN/TC 234	EN 12327	2012		Gas infrastructure - Pressure testing, commissioning and decommissioning procedures - Functional requirements		Hydrogen network	Distribution	
CEN/TC 234	EN 12583	2024		Gas Infrastructure - Compressor stations - Functional requirements		Hydrogen network	Distribution	
CEN/TC 234	EN 12732	2021		Gas infrastructure - Welding steel pipework - Functional requirements		Hydrogen network	Distribution	
CEN/TC 234	EN 15001 (series)			Gas supply systems - Gas installation pipework with an operating pressure greater than 0,5 bar for industrial installations and greater than 5 bar for industrial and non-industrial installations		Hydrogen network	Distribution	
CEN/TC 234	EN 15001-1	2023	under amendment	Gas Infrastructure - Gas installation pipework with an operating pressure greater than 0,5 bar for industrial installations and greater than 5 bar for industrial and non-industrial installations - Part 1: Detailed functional requirements for design, materials, construction, inspection and testing		Hydrogen network	Distribution	
CEN/TC 234	EN 16726	2025		Gas infrastructure - Quality of gas - Group H		Hydrogen network	Distribution	Industrial application
CEN/TC 234	EN 17649	2022		Gas infrastructure - Safety Management System (SMS) and Pipeline Integrity Management System (PIMS) - Functional requirements		Hydrogen network	Transmission	
CEN/TC 234	EN 17928-1	2024		Gas infrastructure - Injection stations - Part 1: General requirements		Hydrogen network	Transmission	
CEN/TC 234	EN 17928-3	2024		Gas infrastructure - Injection stations - Part 3: Specific requirements regarding the injection of hydrogen		Hydrogen network	Transmission	
CEN/TC 234	CEN/TS 17977	2023		Gas infrastructure - Quality of gas - Hydrogen used in rededicated gas systems		Hydrogen network	Distribution	Hydrogen production
CEN/TC 234	WI00234125		under development	Gas infrastructure — Quality of gas — Hydrogen		Hydrogen network	Hydrogen quality	
CEN/TC 235	EN 334+A1	2024		Gas pressure regulators for inlet pressure up to 10 MPa (100 bar)		Building/ Residential application	Heating & Cooling	Industrial applications
CEN/TC 235	EN 14382+A1	2024		Gas safety shut-off devices for inlet pressure up to 10 MPa (100 bar)		Industrial applications	Heating & Cooling	

Technical Committee	Standard	Current edition	Status	Title	VA or FA with	Lead Cluster* (orange)	Subcluster (blau)	Supporting Cluster
CEN/TC 235	CEN/TS 18173	2025		Hydrogen applications - Material compatibility evaluation and qualification - Equipment used in commercial, industrial installations including gas burners, gas burning appliances and fuel gas infrastructures		Industrial applications	Industrial processes	Hydrogen network
CEN/TC 236	EN 331	2015		Manually operated ball valves and closed bottom taper plug valves for gas installations for buildings		Building/ Residential application	Heating & Cooling	
CEN/TC 237	EN 1359	2017		Gas meters - Diaphragm gas meters		Hydrogen network	Distribution	
CEN/TC 237	EN 12261	2024		Gas meters - Turbine gas meters		Hydrogen network	Distribution	
CEN/TC 237	EN 12405 (series)			Gas meters - Conversion devices		Quality, safety, sustainability	Metrology	
CEN/TC 237	EN 12405-1	2021		Gas meters - Conversion devices - Part 1: Volume conversion		Hydrogen network	Distribution	
CEN/TC 237	EN 12480	2025		Gas meters - Rotary displacement gas meters		Hydrogen network	Distribution	
CEN/TC 237	EN 14236	2018	under revision	Ultrasonic domestic gas meters		Hydrogen network	Distribution	
CEN/TC 237	ISO 17089	2019		Measurement of fluid flow in closed conduits - Ultrasonic meters for gas		Hydrogen network	Distribution	
CEN/TC 238	EN 437	2021		Test gases - Test pressures - Appliance categories		Building/ Residential application	Heating & Cooling	
CEN/TC 238	EN ISO 6145 (series)			Gas analysis - Preparation of calibration gas mixtures using dynamic volumetric methods		Quality, safety, sustainability	Metrology	
CEN/TC 238	EN ISO 6974 (series)			Natural gas - Determination of hydrogen, inert gases and hydrocarbons up to C8 - Gas chromatographic		Quality, safety, sustainability	Gas quality	
CEN/TC 238	EN ISO 10715	2022		Natural gas — Sampling guideline		Quality, safety, sustainability	Metrology	
CEN/TC 238	EN ISO 12213 (series)	2009		Natural gas - Calculation of compression factor		Quality, safety, sustainability	Metrology	
CEN/TC 238	EN ISO 13443	2005		Natural gas — Standard reference conditions		Quality, safety, sustainability	Metrology	
CEN/TC 256	EN 45545-7	2013		Railway applications - Fire protection on railway vehicles - Part 7: Fire safety requirements for flammable liquid and flammable gas installations		Transport and Mobility	Rail	
CEN/TC 262	EN ISO 7539-11	2014		Corrosion of metals and alloys - Stress corrosion testing - Part 11: Guidelines for testing the resistance of metals and alloys to hydrogen embrittlement and hydrogen-assisted cracking	ISO/TC 156	Hydrogen network	Distribution	
CEN/TC 267	EN 13480-1	2024		Metallic industrial piping - Part 1: General		Hydrogen network	Distribution	
CEN/TC 267	EN 13480-2	2024		Metallic industrial piping - Part 2: Materials		Hydrogen network	Distribution	
CEN/TC 267	EN 13480-3	2024	under amendment	Metallic industrial piping - Part 3: Design and calculation		Hydrogen network	Distribution	
CEN/TC 267	EN 13480-4	2024	under amendment	Metallic industrial piping - Part 4: Fabrication and installation		Hydrogen network	Distribution	
CEN/TC 267	EN 13480-5	2024	under amendment	Metallic industrial piping - Part 5: Inspection and testing		Hydrogen network	Distribution	
CEN/TC 267	EN 13480-6	2024		Metallic industrial piping - Part 6: Additional requirements for buried piping		Hydrogen network	Distribution	
CEN/TC 267	EN 13480-8	2024		Metallic industrial piping - Part 8: Additional requirements for aluminium and aluminium alloy piping		Hydrogen network	Distribution	
CEN/TC 267	EN 13480-9		under development	Metallic industrial piping - Part 9: Additional requirements for nickel and nickel alloys piping		Hydrogen network	Distribution	
CEN/TC 267	CEN/TR 13480-7	2017		Metallic industrial piping - Part 7: Guidance on the use of conformity assessment procedures		Hydrogen network	Distribution	
CEN/TC 268	EN 13371	2001		Cryogenic vessels - Couplings for cryogenic service		Transport and Mobility	Transport of hydrogen	
CEN/TC 268	EN 17124		under development	Hydrogen fuel - Product specification and quality assurance for hydrogen refuelling points dispensing liquid or gaseous hydrogen - Proton exchange membrane (PEM) fuel cell applications for vehicles		Transport and Mobility	Road	
CEN/TC 268	EN 17124	2026		Hydrogen fuel - Product specification and quality assurance for hydrogen refuelling points dispensing liquid or gaseous hydrogen - Proton exchange membrane (PEM) fuel cell applications for vehicles		Transport and Mobility	Road	
CEN/TC 268	EN 17127	2024		Outdoor hydrogen refuelling points dispensing gaseous hydrogen and incorporating filling protocols		Transport and Mobility	Road	
CEN/TC 268	EN ISO 17268-1	2025		Gaseous hydrogen land vehicle refuelling connection devices — Part 1: Flow capacities up to and including 120 g/s	ISO/TC 197	Transport and Mobility	Road	
CEN/TC 268	EN ISO 17268-2		under revision	Gaseous hydrogen land vehicle refuelling connection devices — Part 2: Part 2: Flow capacities greater than 120 g/s	ISO/TC 197	Transport and Mobility	Road	
CEN/TC 268	EN ISO 21012	2024		Cryogenic vessels - Hoses (ISO 21012:2024)		Transport and Mobility	Transport of hydrogen	
CEN/TC 268	EN ___ (00268090)		under development	Outdoor hydrogen refuelling points dispensing liquified hydrogen and incorporating filling protocols		Transport and Mobility	Transport of hydrogen	

Technical Committee	Standard	Current edition	Status	Title	VA or FA with	Lead Cluster* (orange)	Subcluster (blau)	Supporting Cluster
CEN/TC 268	EN ___ (00268091)		under development	Specifications for gaseous hydrogen refuelling points for maritime and inland waterways vessels		Transport and Mobility	Waterborne transport	
CEN/TC 268	ISO 13984	2026		Liquid hydrogen — Land vehicle fueling protocol		Transport and Mobility	Road	
CEN/TC 268	ISO 19885 (series)			Gaseous hydrogen — Fuelling protocols for hydrogen-fuelled vehicles		Transport and Mobility	Road	
CEN/TC 269	EN 12952 (series)			Water-tube boilers and auxiliary installation		Industrial applications	Heating & Cooling	
CEN/TC 269	EN 12953 (series)			Shell boilers		Industrial applications	Heating & Cooling	
CEN/TC 270	EN 1834 (series)			Reciprocating internal combustion engines — Safety requirements for design and construction of engines for use in potentially explosive atmospheres		Transport and Mobility	Road	
CEN/TC 270	ISO 8178 (series)			Reciprocating internal combustion engines — Exhaust emission measurement		Industrial applications	Industrial processes	
CEN/TC 270	ISO 8528 (series)			Reciprocating internal combustion engine driven alternating current generating sets		Transport and Mobility	Road	
CEN/TC 282	EN 1473	2021		Installation and equipment for liquefied natural gas - Design of onshore installations		Industrial applications	Industrial processes	
CEN/TC 282	EN ISO 20519	2022		Ships and marine technology — Specification for bunkering of liquefied natural gas fuelled vessels	ISO/TC 8/ SC 25	Transport and Mobility	Waterborne transport	
CEN/TC 282	EN ISO 21593	2019		Ship and marine technology - Technical requirements for dry-disconnect/connect couplings for bunkering liquefied natural gas (ISO 21593:2019)	ISO/TC 8/ SC 25	Transport and Mobility	Waterborne transport	
CEN/TC 299	EN 12309 (series)			Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70 kW		Industrial applications	Heating & Cooling	Residential application
CEN/TC 299	EN 16905-2	2020	under revision	Gas-fired endothermic engine driven heat pumps - Part 2: Safety		Industrial applications	Heating & Cooling	
CEN/TC 305	EN 1127-1	2019	under revision	Explosive atmospheres - Explosion prevention and protection - Part 1: Basic concepts and methodology	IEC/TC 31/ SC 31M	Quality, safety, sustainability	Safety	
CEN/TC 305	EN 1839	2017		Determination of the explosion limits and the limiting oxygen concentration(LOC) for flammable gases and vapours	IEC/TC 31/ SC 31M	Quality, safety, sustainability	Safety	
CEN/TC 305	EN 15198	2007		Methodology for the risk assessment of non-electrical equipment and components for intended use in potentially explosive atmospheres		Quality, safety, sustainability	Safety	
CEN/TC 305	EN 15967	2022		Determination of maximum explosion pressure and the maximum rate of pressure rise of gases and vapours	IEC/TC 31/ SC 31M	Quality, safety, sustainability	Safety	
CEN/TC 305	EN 17624	2022		Determination of explosion limits of gases and vapours at elevated pressures, elevated temperatures or with oxidizers other than air	IEC/TC 31/ SC 31M	Quality, safety, sustainability	Safety	
CEN/TC 305	EN IEC 60079			Explosive atmospheres (series)		Quality, safety, sustainability	Safety	
CEN/TC 305	EN ISO 80079-36	2016		Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres - Basic method and requirements	IEC/TC 31/ SC 31M	Quality, safety, sustainability	Safety	
CEN/TC 305	EN ISO 80079-36+AC	2019		Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres - Basic method and requirements	IEC/TC 31/ SC 31M	Quality, safety, sustainability	Safety	
CEN/TC 305	EN ISO/IEC 80079-20-1	2019	under revision	Explosive atmospheres - Part 20-1: Material characteristics for gas and vapour classification - Test methods and data (ISO/IEC 80079-20-1:2017, including Cor 1:2018)	IEC/TC 31/ SC 31M	Quality, safety, sustainability	Safety	
CEN/TC 305	EN ISO/IEC 80079-20-1		under development	Explosive atmospheres — Part 20-1: Material characteristics for gas and vapour classification — Test methods and data	IEC/TC 31/ SC 31M	Quality, safety, sustainability	Safety	
CEN/TC 305	EN ISO/IEC 80079-49	2024		Explosive atmospheres - Part 49: Flame arresters - Performance requirements, test methods and limits for use	IEC/TC 31/ SC 31M	Quality, safety, sustainability	Safety	
CEN/TC 326	EN ISO 16923	2026		Natural gas fuelling stations - Compressed natural gas (CNG) stations for fuelling vehicles (ISO 16923:2026)		Transport and Mobility	Road	
CEN/TC 326	EN 17921	2024		Natural gas fuelling stations - LNG unloading connector		Transport and Mobility	Road	
CEN/TC 326	EN 17922	2024		Natural gas fuelling stations - LNG unloading stop system		Transport and Mobility	Road	
CEN/TC 399	EN ISO 21789	2022		Gas turbine – Safety	ISO/TC 192	Industrial applications	Industrial processes	
CEN/TC 408	EN 16723-2	2017		Natural gas and biomethane for use in transport and biomethane for injection in the natural gas network - Part 2: Automotive fuels specification		Transport and Mobility	Road	Hydrogen network

Technical Committee	Standard	Current edition	Status	Title	VA or FA with	Lead Cluster* (orange)	Subcluster (blau)	Supporting Cluster
CEN/TC 459	EN ISO 6892-1	2019		Metallic materials - Tensile testing - Part 1: Method of test at room temperature (ISO 6892-1:2019)		Hydrogen network	Distribution	
CEN/TC 459	EN ISO 6892-3	2015		Metallic materials - Tensile testing - Part 3: Method of test at low temperature (ISO 6892-3:2015)		Hydrogen network	Distribution	
CEN/TC 459	EN 10216-1	2013		Seamless steel tubes for pressure purposes - Technical delivery conditions - Part 1: Non-alloy steel tubes with specified room temperature properties		Hydrogen network	Distribution	
CEN/TC 459	EN 10216-2	2013		Seamless steel tubes for pressure purposes - Technical delivery conditions - Part 2: Non-alloy and alloy steel tubes with specified elevated temperature properties		Hydrogen network	Distribution	
CEN/TC 459	EN 10216-3	2013		Seamless steel tubes for pressure purposes - Technical delivery conditions - Part 3: Alloy fine grain steel tubes		Hydrogen network	Distribution	
CEN/TC 459	EN 10216-4	2013		Seamless steel tubes for pressure purposes - Technical delivery conditions - Part 4: Non-alloy and alloy steel tubes with specified low temperature properties		Hydrogen network	Distribution	
CEN/TC 459	EN 10216-5	2021		Seamless steel tubes for pressure purposes - Technical delivery conditions - Part 5: Stainless steel tubes		Hydrogen network	Distribution	
CEN/TC 459	EN 10217-1	2019		Welded steel tubes for pressure purposes - Technical delivery conditions - Part 1: Electric welded and submerged arc welded non-alloy steel tubes with specified room temperature properties		Hydrogen network	Distribution	
CEN/TC 459	EN 10217-2	2019		Welded steel tubes for pressure purposes - Technical delivery conditions - Part 2: Electric welded non-alloy and alloy steel tubes with specified elevated temperature properties		Hydrogen network	Distribution	
CEN/TC 459	EN 10217-3	2019		Welded steel tubes for pressure purposes - Technical delivery conditions - Part 3: Electric welded and submerged arc welded alloy fine grain steel tubes with specified room, elevated and low temperature properties		Hydrogen network	Distribution	
CEN/TC 459	EN 10217-4	2019		Welded steel tubes for pressure purposes - Technical delivery conditions - Part 4: Electric welded non-alloy steel tubes with specified low temperature properties		Hydrogen network	Distribution	
CEN/TC 459	EN 10217-5	2019		Welded steel tubes for pressure purposes - Technical delivery conditions - Part 5: Submerged arc welded non-alloy and alloy steel tubes with specified elevated temperature properties		Hydrogen network	Distribution	
CEN/TC 459	EN 10217-6	2019		Welded steel tubes for pressure purposes - Technical delivery conditions - Part 6: Submerged arc welded non-alloy steel tubes with specified low temperature properties		Hydrogen network	Distribution	
CEN/TC 459	EN 10217-7	2021		Welded steel tubes for pressure purposes - Technical delivery conditions - Part 7: Stainless steel tubes		Hydrogen network	Distribution	
CEN/TC 459/SC 10	EN ISO 3183	2019		Petroleum and natural gas industries - Steel pipe for pipeline transportation systems		Hydrogen network	Transmission	
CEN/TC 459/SC 2	EN ISO 6892-2	2018	under revision	Metallic materials - Tensile testing - Part 2: Method of test at elevated temperature (ISO 6892-2:2018)		Hydrogen network	Distribution	
CEN/TC 467	EN ISO 14067	2018		Greenhouse gases - Carbon footprint of products - Requirements and guidelines for quantification (ISO 14067:2018)		Quality, safety, sustainability	Sustainability/Environment/GHG/Guarantee of origin	
CEN/TC 474	ISO/TR 27912	2016		Carbon dioxide capture — Carbon dioxide capture systems, technologies and processes		Hydrogen production	Other H2 Production Systems	
CEN/SS S26	EN ISO 14040	2006	under amendment	Environmental management - Life cycle assessment - Principles and framework (ISO 14040:2006)		Quality, safety, sustainability	Sustainability/Environment/GHG/Guarantee of origin	
CEN/SS S26	EN ISO 14044	2006	under amendment	Environmental management - Life cycle assessment - Requirements and guidelines (ISO 14044:2006)		Quality, safety, sustainability	Sustainability/Environment/GHG/Guarantee of origin	
CLC/SR 105	EN 62282-3-100	2020		Fuel cell technologies - Part 3-100: Stationary fuel cell power systems - Safety		Building/ Residential application	Safety Aspects	
CLC/SR 105	EN IEC 62282-8-101	2020	under revision	Fuel cell technologies - Part 8-101: Energy storage systems using fuel cell modules in reverse mode - Test procedures for the performance of solid oxide single cells and stacks, including reversible operation	IEC/TC 105	Hydrogen network	Storage	
CLC/SR 105	EN IEC 62282-8-102	2020	under revision	Fuel cell technologies - Part 8-102: Energy storage systems using fuel cell modules in reverse mode - Test procedures for the performance of single cells and stacks with proton exchange membrane, including reversible operation	IEC/TC 105	Hydrogen network	Storage	
CLC/SR 105	EN IEC 62282-8-201	2024		Fuel cell technologies - Part 8-201: Energy storage systems using fuel cell modules in reverse mode - Test procedures for the performance of power-to-power systems	IEC/TC 105	Hydrogen network	Storage	

Technical Committee	Standard	Current edition	Status	Title	VA or FA with	Lead Cluster* (orange)	Subcluster (blau)	Supporting Cluster
CLC/SR 105	EN IEC 62282-8-301	2023		Fuel cell technologies - Part 8-301: Energy storage systems using fuel cell modules in reverse mode - Power-to-methane energy systems based on solid oxide cells including reversible operation - Performance test methods	IEC/TC 105	Hydrogen network	Storage	
CLC/SR 105	EN IEC 63341 (series)			Railway applications – Rolling stock – Fuel cell systems for propulsion		Transport and Mobility	Rail	
CLC/TC 8X	EN 50549 (series)			Requirements for generating plants to be connected in parallel with distribution networks		Hydrogen production	Other H2 Production Systems	Energy sector integration
CLC/TC 9X	EN IEC 63341-1			Railway applications - Rolling stock - Fuel cell systems for propulsion - Part 1: Fuel cell system	IEC/TC 9	Transport and Mobility	Rail	
CLC/TC 9X	EN IEC 63341-2			Railway applications - Hydrogen and fuel cell systems for rolling stock - Part 2: Hydrogen fuel system	IEC/TC 9	Transport and Mobility	Rail	
CLC/TC 31	EN 60079-29-0	2026		Explosive atmospheres - Part 29-0: Gas detection equipment - General requirements and test methods		Quality, safety, sustainability	Safety	
CLC/TC 31	EN IEC 60079-10-1	2021	under revision	Explosive atmospheres - Part 10-1: Classification of areas - Explosive gas atmospheres (IEC 60079-10-1:2015 + COR1:2015)		Quality, safety, sustainability	Safety	
CLC/TC 61	EN 1829-1	2021		High-pressure water jet machines - Safety requirements - Part 1: Machines		Industrial applications	Industrial processes	
CLC/TC 216	EN 50194 (series)			Electrical apparatus for the detection of combustible gases in domestic premises (to revise for H2)		Quality, safety, sustainability	Safety	
ISO/TC 8/SC 2	ISO 24132	2024		Ships and marine technology — Design and testing of marine transfer arms for liquefied hydrogen		Transport and Mobility	Waterborne transport	
ISO/TC 8/SC 3	ISO 11326	2024		Ships and marine technology — Test procedures for liquid hydrogen storage tank of hydrogen ships		Transport and Mobility	Waterborne transport	
ISO/TC 8/SC 7	ISO 28701	2025		Inland navigation and commercial shipping — Safety and sustainability management systems — Requirements and guidance for use		Transport and Mobility	Waterborne transport	
ISO/TC 28/SC 4/WG 18	ISO 6583	2024		Methanol as a fuel for marine applications — General requirements and specifications		Transport and Mobility	Waterborne transport	
ISO/TC 30	ISO 5168	2005		Measurement of fluid flow — Procedures for the evaluation of uncertainties		Hydrogen network	Distribution	
ISO/TC 30/SC 5	ISO 10790	2015		Measurement of fluid flow in closed conduits - Guidance to the selection, installation and use of Coriolis flowmeters (mass flow, density and volume flow measurements)		Hydrogen network	Distribution	
ISO/TC 58	ISO 7866	2012		Gas cylinders - Refillable seamless aluminium alloy gas cylinders - Design, construction and testing		Transport and Mobility	Transport of hydrogen	
ISO/TC 58/SC 3	ISO 11119-1	2020		Gas cylinders — Design, construction and testing of refillable composite gas cylinders and tubes — Part 1: Hoop wrapped fibre reinforced composite gas cylinders and tubes up to 450 l		Transport and Mobility	Transport of hydrogen	
ISO/TC 58/SC 3	ISO 11119-2	2020		Gas cylinders — Design, construction and testing of refillable composite gas cylinders and tubes — Part 2: Fully wrapped fibre reinforced composite gas cylinders and tubes up to 450 l with load-sharing metal liners		Transport and Mobility	Transport of hydrogen	
ISO/TC 58/SC 3	ISO 11119-3	2020		Gas cylinders — Design, construction and testing of refillable composite gas cylinders and tubes — Part 3: Fully wrapped fibre reinforced composite gas cylinders and tubes up to 450 l with non-load-sharing metallic or non-metallic liners or without liners		Transport and Mobility	Transport of hydrogen	
ISO/TC 58/SC 3	ISO 11119-4	2016		Gas cylinders — Refillable composite gas cylinders — Design, construction and testing — Part 4: Fully wrapped fibre reinforced composite gas cylinders up to 150 l with load-sharing welded metallic liners		Transport and Mobility	Transport of hydrogen	
ISO/TC 58/SC 3	ISO 11120	2015		Gas cylinders - Refillable seamless steel tubes of water capacity between 150 l and 3000 l - Design, construction and testing (ISO 11120:2015)		Transport and Mobility	Transport of hydrogen	
ISO/TC 70	ISO 3046 (series)			Reciprocating internal combustion engines — Performance		Transport and Mobility	Road	
ISO/TC 70	ISO 15550	2016		Internal combustion engines — Determination and method for the measurement of engine power — General requirements		Transport and Mobility	Road	
ISO/TC 138/SC 3	ISO 21036			Plastics piping systems for industrial applications — Unplasticized Polyamide (PA-U) — Metric series for specifications for components and system		Hydrogen network	Distribution	
ISO/TC 138/SC 4	ISO 16486-6	2023		Plastics piping systems for the supply of gaseous fuels - Unplasticized polyamide (PA-U) piping systems with fusion jointing and mechanical jointing — Part 6: Code of practice for design, handling and installation		Hydrogen network	Distribution	

Technical Committee	Standard	Current edition	Status	Title	VA or FA with	Lead Cluster* (orange)	Subcluster (blau)	Supporting Cluster
ISO/TC 138/SC 4	ISO/TS 16486-8	2022		Plastics piping systems for the supply of gaseous fuels — Unplasticized polyamide (PA-U) piping systems with fusion jointing and mechanical jointing — Part 8: Training and assessment of fusion operators		Hydrogen network	Distribution	
ISO/TC 158	ISO 19229	2019		Gas analysis — Purity analysis and the treatment of purity data		Hydrogen network	Hydrogen quality	
ISO/TC 158	ISO 21087			Gas analysis — Analytical methods for hydrogen fuel — PEM fuel cell applications for road vehicles		Transport and Mobility	Road	
ISO/TC 192	ISO 2314	2009	under revision	Gas turbines — Acceptance tests		Industrial applications	H2 to power and fuel cell	
ISO/TC 192	ISO 3977 (series)			Gas turbines – Procurement		Industrial applications	H2 to power and fuel cell	
ISO/TC 192	ISO 11086	1996		Gas turbines — Vocabulary		Industrial applications	H2 to power and fuel cell	
ISO/TC 192	ISO 18888	2017	under revision	Gas turbine combined cycle power plants — Thermal performance tests		Industrial applications	H2 to power and fuel cell	
ISO/TC 192	ISO 19372	2015		Microturbines applications — Safety		Industrial applications	H2 to power and fuel cell	
ISO/TC 192	ISO 19859	2016		Gas turbines — Power generation applications		Industrial applications	H2 to power and fuel cell	
ISO/TC 192	ISO 19860	2005		Gas turbines — Data acquisition and trend monitoring system requirements for gas turbine installations		Industrial applications	H2 to power and fuel cell	
ISO/TC 193	ISO 13734			Natural gas — Organic components used as odorants for fuel gases — Requirements and test methods		Quality, safety, sustainability	Safety	
ISO/TC 193	ISO/TS 16922	2022		Natural gas — Odorization		Quality, safety, sustainability	Safety	
ISO/TC 197	EN 228	2025		Automotive fuels - Unleaded petrol - Requirements and test methods		Transport and Mobility	Road	
ISO/TC 197	EN 590	2025		Automotive fuels - Diesel - Requirements and test methods		Transport and Mobility	Road	
ISO/TC 197	EN 15940	2023		Automotive fuels - Paraffinic diesel fuel from synthesis or hydrotreatment - Requirements and test methods		Transport and Mobility	Road	
ISO/TC 197	ISO 13985	2006	under revision	Liquid hydrogen — Land vehicle fuel tanks		Transport and Mobility	Road	
ISO/TC 197	ISO 13985		under revision	Liquid hydrogen — Land vehicle fuel tanks		Transport and Mobility	Road	
ISO/TC 197	ISO 14687	2025		Hydrogen fuel quality — Product specification		Hydrogen production	Other H2 Production Systems	Cross-cutting
ISO/TC 197	ISO 16110-1	2007		Hydrogen generators using fuel processing technologies — Part 1: Safety		Hydrogen production	Other H2 Production Systems	
ISO/TC 197	ISO 16111	2018		Transportable gas storage devices — Hydrogen absorbed in reversible metal hydride		Hydrogen network	Storage	
ISO/TC 197	ISO 17268	2020	under revision	Gaseous hydrogen land vehicle refuelling connection devices		Transport and Mobility	Road	
ISO/TC 197	ISO/TS 19870	2023	under revision	Hydrogen technologies — Methodology for determining the greenhouse gas emissions associated with the production, conditioning and transport of hydrogen to consumption gate		Quality, safety, sustainability	Sustainability/Environment/GHG/Guarantee of origin	
ISO/TC 197	ISO 19880-1	2020		Gaseous hydrogen — Fuelling stations — Part 1: General requirements		Transport and Mobility	Road	
ISO/TC 197	ISO 19880-2	2025		Gaseous hydrogen — Fuelling stations — Part 2: Dispensers and dispensing systems		Transport and Mobility	Road	
ISO/TC 197	ISO 19880-3	2018		Gaseous hydrogen — Fuelling stations — Part 3: Valves		Transport and Mobility	Road	
ISO/TC 197	ISO 19880-5	2025		Gaseous hydrogen — Fuelling stations — Part 5: Dispenser hoses and hose assemblies		Transport and Mobility	Road	
ISO/TC 197	ISO 19880-7	2025		Gaseous hydrogen — Fuelling stations — Part 7: Rubber O-rings		Transport and Mobility	Road	
ISO/TC 197	ISO 19880-8	2024		Gaseous hydrogen — Fuelling stations — Part 8: Fuel quality control		Transport and Mobility	Road	
ISO/TC 197	ISO 19880-9	2024		Gaseous hydrogen — Fuelling stations — Part 9: Sampling for fuel quality analysis		Transport and Mobility	Road	
ISO/TC 197	ISO/TS 19880-10		under development	Gaseous hydrogen — Fuelling stations — Part 10: Mobile fueling stations		Transport and Mobility	Road	
ISO/TC 197	ISO 19881	2025		Gaseous hydrogen — Land vehicle fuel containers		Transport and Mobility	Road	
ISO/TC 197	ISO 19882			Gaseous hydrogen — Thermally activated pressure relief devices for compressed hydrogen vehicle fuel containers		Transport and Mobility	Road	
ISO/TC 197	ISO/TS 19883	2017		Safety of pressure swing adsorption systems for hydrogen separation and purification		Hydrogen production	Other hydrogen production systems	
ISO/TC 197	ISO 19884 (series)			Gaseous hydrogen — Pressure vessels for stationary storage		Transport and Mobility	Road	
ISO/TC 197	ISO 19885-1	2024		Gaseous hydrogen — Fuelling protocols for hydrogen-fuelled vehicles — Part 1: Design and development process for fuelling protocols		Transport and Mobility	Road	
ISO/TC 197	ISO 19885-2		under development	Gaseous hydrogen — Fuelling protocols for hydrogen-fuelled vehicles — Part 2: Part 2: Definition of communications between the vehicle and dispenser control systems		Transport and Mobility	Road	

Technical Committee	Standard	Current edition	Status	Title	VA or FA with	Lead Cluster* (orange)	Subcluster (blau)	Supporting Cluster
ISO/TC 197	ISO 19885-3		under development	Gaseous hydrogen — Fuelling protocols for hydrogen-fuelled vehicles — Part 3: High flow hydrogen fuelling protocols for heavy duty road vehicles		Transport and Mobility	Road	
ISO/TC 197	ISO/AWI 19886		under development	Hydrogen technologies — General hydrogen station requirements		Transport and Mobility	Road	
ISO/TC 197	ISO 19887-1			Gaseous hydrogen — Fuel system components for hydrogen-fuelled vehicles — Part 1: Land vehicles		Transport and Mobility	Road	
ISO/TC 197	ISO 19888-1		under development	Hydrogen Technologies — Aerial Vehicles — Part 1: Liquid Hydrogen Fuel Storage System		Transport and Mobility	Road	
ISO/TC 197	ISO 19889			Hydrogen technologies — Interoperability — Part 1: Interface between gaseous hydrogen trailer and hydrogen fuelling station		Transport and Mobility	Road	
ISO/TC 197	ISO/WD 24925		under development	Cryo-compressed hydrogen refuelling protocol		Transport and Mobility	Road	
ISO/TC 197	ISO/CD 25578		under development	Liquid hydrogen — Land vehicle refuelling connection devices		Transport and Mobility	Road	
ISO/TC 197	ISO/WD 26018		under development	Liquid hydrogen — Fuel system components for hydrogen fuelled vehicles		Transport and Mobility	Road	
ISO/TC 197	ISO 26142	2010		Hydrogen detection apparatus - Stationary applications		Quality, safety, sustainability	Safety	
ISO/TC 197/SC 1	ISO/CD 19887-2		under development	Gaseous hydrogen — Fuel system components for hydrogen-fuelled vehicles — Part 2: Rail vehicles		Transport and Mobility	Rail	
ISO/TC 197/SC 1	ISO/NP 25666		under development	Safety requirements for liquid hydrogen maritime onshore terminal		Transport and Mobility	Waterborne transport	
ISO/TC 220	ISO 21011	2008		Cryogenic vessels — Valves for cryogenic service		Transport and Mobility	Transport of hydrogen	
ISO/TC 244	ISO 13577-1	2016		Industrial furnaces and associated processing equipment — Safety — Part 1: General requirements		Industrial applications	Industrial processes	
ISO/TC 244	ISO 13577-3	2016		Industrial furnaces and associated processing equipment — Safety — Part 3: Generation and use of protective and reactive atmosphere gases		Industrial applications	Industrial processes	
ISO/TC 308	ISO 22095-2	2026		Chain of custody - Part 2: Requirements and guidelines for mass balance		Quality, safety, sustainability	Sustainability/Environment/GHG/Guarantee of origin	
SyC Smart Energy Smart Energy	IEC/SRD 63200	2021		Definition of extended SGAM smart energy grid reference architecture model		Energy sector integration	Transmission	

Note:

For further information about the Technical Committees, please see

- ISO: https://www.iso.org/technical-committees.html

- IEC: https://www.iec.ch/technical-committees-and-subcommittees#tclist

- CEN: https://standards.cencenelec.eu/dyn/www/f?p=CEN:6

- CENELEC: https://standards.cencenelec.eu/dyn/www/f?p=CENELEC:6