Economic Commission for Europe

Inland Transport Committee

Working Party on the Transport of Dangerous Goods

Joint Meeting of the RID Committee of Experts and the Working Party on the Transport of Dangerous Goods

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Standards

List of EN Standards in RID/ADR/ADN

Transmitted by the European Committee for Standardisation (CEN)

This document relates to ECE/TRANS/WP.15/AC.1/2011/**28,** the revised cooperation procedures as proposed by CEN/CENELEC, and the intention to draw up a mechanism for a comprehensive documentation and review of references to standards in RID/ADR/ADN, in particular.

The attached list includes all EN, EN ISO and EN ISO IEC standards referenced in RID/ADR/ADN 2011 in the sequence of its appearance in the regulations (columns 1 – 3) together with the reference text (column 4), standard number (column 5), its status (column 6), title (column 7) and character (column 8).

- The reference text in Column 4, most often a shortened copy of the paragraph where the standard reference appears, shall allow for a judgment of the character of the reference which may be informative, advisory, compulsory or regulatory.

- The referenced standard number in Column 5 has been completed by zeros to bring all of them to a 5 digit format which allows for an easy sorting of the Excel-Table.

- Column 6 indicates whether a standard has been revised, replaced or withdrawn in which case the standard number is printed in bolt letters. The information in this column is preliminary and will be checked in detail when the revised cooperation procedures have been adopted. The fact that some of the old versions of standards are kept in the regulations by intention because of the related transition rules need also to be considered.

- Column 8 is based on the agreement of the Joint Meeting to distinguish between dedicated and general purpose standards only (see definitions in ECE/TRANS/WP.15/AC.1/2011/**28**).

The characterization of standards is essential for the procedures to be followed. In case of a diverging judgment the Standards Working Group could resolve the discrepancy.

ADR subsec. /para	**RID** subsec. /para	**ADN** subsec. /para	**Reference text**	**Referenced Standard number**	**Status** (withdrawn/ replaced by)	**Title**	**Character of standard**
		1.2.1 A	Auto-ignition temperature (EN 1127-1:1997, No. 331) means …	EN 01127-1:1997 No. 331	**EN 1127-1:2007**	Explosive atmospheres - Explosion prevention and protection - Part 1: Basic concepts and methodology	General purpose standard
		1.2.1 B	For such apparatuses, see for example European standard …	EN 00136:1998	EN 136:1998	Respiratory protective devices - Fullface masks - Requirements, testing, marking	General purpose standard
		1.2.1 B	For such apparatuses, see for example European standard ...	EN 00137:1993	**EN 137:2007**	Respiratory protective devices - Self-contained open-circuit compressed air breathing apparatus with full face mask - Requirements, testing, marking	General purpose standard
		1.2.1 B	For such apparatuses, see for example European standard ...	EN 00138:1994	EN 138:1994	Respiratory protective devices - Fresh air hose breathing apparatus for use with full face mask, half mask or mouthpiece assembly - Requirements, testing, marking	General purpose standard
		1.2.1 B	For the filters used, see for example European standard …	EN 00371:1992	**EN 14387:2008**	Respiratory protective devices - Gas filter(s) and combined filter(s) - Requirements, testing, marking	General purpose standard
		1.2.1 B	For the filters used, see for example European standard …	EN 00372:1992	**EN 14387:2008**	Respiratory protective devices - Gas filter(s) and combined filter(s) - Requirements, testing, marking	General purpose standard
1.2.1 C	1.2.1 C	1.2.1 C	A swap body is a container which, in accordance with European Standard EN 283:1991 has the following characteristics ...	EN 00283:1991	EN 283:1991	Swap bodies - Testing	**Dedicated standard**
		1.2.1 D	Deflagration means an explosion which propagates at subsonic speed (see EN 1127-1:1997	EN 01127-1:1997	**EN 1127-1:2008**	Explosive atmospheres - Explosion prevention and protection - Part 1: Basic concepts and	General purpose standard

						methodology	
		1.2.1 D	Detonation means an explosion which propagates at supersonic speed and is characterized by a shock-wave (see EN 1127-1:1997)	EN 01127-1:1997	**EN 1127-1:2008**	Explosive atmospheres - Explosion prevention and protection - Part 1: Basic concepts and methodology	General purpose standard
		1.2.1 E	For such devices, see for example European standard …	EN 00400:1993	**EN 13794:2003**	Respiratory protective devices - Self-contained closed-circuit breathing apparatus for escape - Requirements, testing, marking	General purpose standard
		1.2.1 E	For such devices, see for example European standard …	EN 00401:1993	**EN 13794:2003**	Respiratory protective devices - Self-contained closed-circuit breathing apparatus for escape - Requirements, testing, marking	General purpose standard
		1.2.1 E	For such devices, see for example European standard …	EN 00402:1993	**EN 402:2003**	Respiratory protective devices - Governed demand self-contained open-circuit compressed air breathing apparatus with full face mask or mouthpiece assembly for escape - Requirements, testing, marking	General purpose standard
		1.2.1 E	For such devices, see for example European standard …	EN 00403:1993	**EN 403:2004**	Respiratory protective devices for self-rescue - Filtering devices with hood for escape from fire - Requirements, testing, marking	General purpose standard
		1.2.1 E	Explosion means a sudden reaction of oxidation or decomposition with an increase in temperature or in pressure or both simultaneously (see EN 1127-1:1997)	EN 01127-1:1997	**EN 1127-1:2008**	Explosive atmospheres - Explosion prevention and protection - Part 1: Basic concepts and methodology	General purpose standard
		1.2.1 E	… in which the combustion process spreads after ignition to the entire unconsumed mixture (see EN 1127-1:1997)	EN 01127-1:1997	**EN 1127-1:2008**	Explosive atmospheres - Explosion prevention and protection - Part 1: Basic concepts and methodology	General purpose standard

		1.2.1 E	For such devices, see for example European standard	EN 01146:1997	**EN 1146:2005**	Respiratory protective devices - Self-contained open-circuit compressed air breathing apparatus incorporating a hood for escape - Requirements, testing, marking	General purpose standard
		1.2.1 E	This device shall be tested according to the European standard …	EN 12874:1999	**EN 12874:2001**	Flame arresters - Performance requirements, test methods and limits for use	General purpose standard
		1.2.1 E	… which may be used in the corresponding potentially explosive atmosphere (see IEC publication 79 and EN 50014: 1994)	EN 50014:1994	**EN 60079-0:2007**	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements	General purpose standard
		1.2.1 F	This device shall be tested according to the European standard …	EN 12874:1999	**EN 12874:2001**	Flame arresters - Performance requirements, test methods and limits for use	**Dedicated standard**
		1.2.1 P	For protective goggles or masks, see for example European standard …	EN 00166:2001	EN 166:2001	Personal eye-protection - Specifications	General purpose standard
		1.2.1 P	For protective suits, see for example European standard …	EN 00340:1993	**EN 340:2003**	Protective clothing - General requirements; German version	General purpose standard
		1.2.1 P	For protective shoes or boots, see for example European standard …	EN 00346:1997	**EN ISO 20346:2007**	Personal protective equipment - Protective footwear	General purpose standard
		1.2.1 P	For the filters used, see for example European standard …	EN 00374-1:1994	**EN 374-1:2003**	Protective gloves against chemicals and micro-organisms - Part 1: Terminology and performance requirements	General purpose standard
		1.2.1 P	For the filters used, see for example European standard …	EN 00374-2:1994	**EN 374-2:2003**	Protective gloves against chemicals and micro-organisms - Part 2: Determination of resistance to penetration	General purpose standard
		1.2.1 P	For the filters used, see for example European standard …	EN 00374-3:1994	**EN 374-3:2003**	Protective gloves against chemicals and micro-organisms - Part 3: Determination of	General purpose standard

						resistance to permeation by chemicals	
		1.2.1 S	Steady burning means combustion stabilized for an indeterminate period (see EN 12 874:1999)	EN 12874:1999	**EN 12874:2001**	Flame arresters - Performance requirements, test methods and limits for use	General purpose standard
		1.2.1 T	… and of the electrical apparatus intended to be used in the corresponding potentially explosive atmosphere according to their maximum surface temperature (see IEC publication 79 and EN 50 014:1994)	EN 50014:1994	**EN 60079-0:2007**	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements	General purpose standard
		1.2.1 T	Types of protection (see IEC Publication 79 and EN 50 014:1994)	EN 50014:1994	**EN 60079-0:2007**	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements	General purpose standard
		1.2.1 T	Tube means ...; Types of protection (see IEC Publication 79 and EN 50 014:1994)	EN 50016	**EN 60079-2:2007**	Explosive atmospheres - Part 2: Equipment protection by pressurized enclosure "p" (IEC 60079-2:2007)	General purpose standard
		1.2.1 T	Tube means ...; Types of protection (see IEC Publication 79 and EN 50 014:1994)	EN 50017	**EN 60079-5:2007**	Explosive atmospheres - Part 5: Equipment protection by powder filling "q" (IEC 60079-5:2007)	General purpose standard
		1.2.1 T	Tube means ...; Types of protection (see IEC Publication 79 and EN 50 014:1994)	EN 50018	**EN 60079-1:2007**	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d" (IEC 60079-1:2007)	General purpose standard
		1.2.1 T	Tube means ...; Types of protection (see IEC Publication 79 and EN 50 014:1994)	EN 50019	**EN 60079-7:2007**	Explosive atmospheres - Part 7: Equipment protection by increased safety "e" (IEC 60079-7:2006)	General purpose standard
		1.2.1 T	Tube means ...; Types of protection (see IEC Publication 79 and EN 50 014:1994)	EN 50020	**EN 60079-11:2007**	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i" (IEC 60079-11:2006)	General purpose standard

		1.2.1 T	Tube means ...; Types of protection (see IEC Publication 79 and EN 50 014:1994)	EN 50028	**EN 60079-18:2004**	Electrical apparatus for explosive gas atmospheres - Part 18: Construction, test and marking of type of protection encapsulation "m" electrical apparatus (IEC 60079-18:2004)	General purpose standard
1.6.3.32			… or the material of which does not meet the requirements of EN 13094:2004, paragraph 5.2, may still be used.	EN 13094:2004	**EN 13094:2008**	Tanks for the transport of dangerous goods - Metallic tanks with a working pressure not exceeding 0,5 bar - Design and construction	**Dedicated standard**
1.6.3.32			Fixed tanks ..., equipped with manhole cover assemblies in accordance with the provisions of standard …	EN 13317:2002	**EN 13317:2002+ A1:2006**	Tanks for transport of dangerous goods - Service equipment for tanks - Manhole cover assembly	**Dedicated standard**
		1.6.7.2.2.2 Table	Compliance of hoses and hose assemblies with standards …	EN 12115:1999	EN 12115:1999	Rubber and thermoplastics hoses and hose assemblies for liquid or gaseous chemicals - Specification	General purpose standard
		1.6.7.2.2.2 Table	Flame arrester Test according to standard …	EN 12874:1999	**EN 12874:2001**	Flame arresters - Performance requirements, test methods and limits for use	General purpose standard
		1.6.7.2.2.2 Table	High velocity vent valve according to standard …	EN 12874:1999	**EN 12874:2001**	Flame arresters - Performance requirements, test methods and limits for use	General purpose standard
		1.6.7.2.2.2 Table	Compliance of hoses and hose assemblies with standards …	EN 13765:2003	EN 13765:2003	Thermoplastic multi-layer (non-vulcanized) hoses and hose assemblies for the transfer of hydrocarbons, solvents and chemicals - Specification	General purpose standard
		1.6.7.2.2.2 Table	Compliance of hoses and hose assemblies with standards …	EN ISO 10380:2003	EN ISO 10380:2003	Pipework - Corrugated metal hose and hose assemblies (ISO	General purpose standard

						10380:2003)	
		1.6.7.4.2 Table C from Part 3 - 3. Until 31.12.2018 UN No. 1202	GAS OIL complying with standard EN 590: 2004	EN 00590:2004	**EN 590:2009+ A1:2010**	Automotive fuels - Diesel - Requirements and test methods	General purpose standard
		1.6.7.4.2 Table C from Part 3 - 3. Until 31.12.2018 UN No. 1202	HEATING OIL (LIGHT) with flash-point as specified in EN 590:2004	EN 00590:2004	**EN 590:2009+ A1:2011**	Automotive fuels - Diesel - Requirements and test methods	General purpose standard
1.8.6.8	1.8.6.8		The inspection body shall additionally be accredited according to the standard EN ISO/IEC 17020:2004, as specified in 6.2.3.6 and TA4 and TT9 of 6.8.4.	EN ISO/IEC 17020:2004	EN ISO/IEC 17020:2004	General criteria for the operation of various types of bodies performing inspection (ISO/IEC 17020:1998)	General purpose standard
1.8.6.8	1.8.6.8		…, the competent authority shall ensure that the inspection body meets the requirements of the standard EN ISO/IEC 17020:2004.	EN ISO/IEC 17020:2004	EN ISO/IEC 17020:2004	General criteria for the operation of various types of bodies performing inspection (ISO/IEC 17020:1998)	General purpose standard
1.8.7.8	1.8.7.8		The requirements of 1.8.7.7 are considered to have been complied with if the following standards, as relevant, are applied: …	EN 12972:2007	EN 12972:2007	Tanks for transport of dangerous goods - Testing, inspection and marking of metallic tanks	**Dedicated standard**
		1.15.3.8	The classification society shall have prepared and implemented and shall maintain an effective system of internal quality based on the relevant aspects of internationally recognized quality standards and conforming to …	EN 29001:1997	**EN ISO 9001:2008**	Quality management systems - Requirements (ISO 9001:2008)	General purpose standard
		1.15.3.8	The classification society shall have prepared and implemented and shall maintain an effective system of internal quality based on the relevant aspects of internationally recognized quality standards and conforming to …	EN 45004:1995	**EN ISO/IEC 17020:2004**	General criteria for the operation of various types of bodies performing inspection (ISO/IEC 17020:1998)	General purpose standard

		1.15.3.8	The classification society shall have prepared and implemented and shall maintain an effective system of internal quality based on the relevant aspects of internationally recognized quality standards and conforming to …	EN ISO/IEC 17020:2004	EN ISO/IEC 17020:2004	General criteria for the operation of various types of bodies performing inspection (ISO/IEC 17020:1998)	General purpose standard
		1.16.4.1	They shall meet the following criteria: … Compliance with … of standard …	EN ISO/IEC 17020:2004	EN ISO/IEC 17020:2004	General criteria for the operation of various types of bodies performing inspection (ISO/IEC 17020:1998)	General purpose standard
2.3.3.1.2 d)	2.3.3.1.2 d)	2.3.3.1.2 d)	To determine the flash-point of … , only apparatus … shall be used, in accordance with the following standards ...	EN ISO 002719, Method B	EN ISO 2719:2002	Determination of flash point - Pensky-Martens closed cup method	General purpose standard
2.3.3.1.2 d)	2.3.3.1.2 d)	2.3.3.1.2 d)	To determine the flash-point of … , only apparatus ... shall be used, in accordance with the following standards …	EN ISO 13736	**EN ISO 13736:2009**	Determination of flash point - Abel closed-cup method (ISO 13736:2008)	General purpose standard
2.3.3.1.5 d) ii)	2.3.3.1.5 d) ii)	2.3.3.1.5 d) ii)	The procedure according to a non-equilibrium method shall be: (d) for the Pensky-Martens apparatus, see:	EN 22719:1994	**EN ISO 2719:2002**	Determination of flash point - Pensky-Martens closed cup method	General purpose standard
2.3.3.1.5 d) ii)	2.3.3.1.5 d) ii)	2.3.3.1.5 d) ii)	(d) for the Pensky-Martens apparatus, see: e.g.	EN 22719:1994	**EN ISO 2719:2002**	Determination of flash point - Pensky-Martens closed cup method	General purpose standard
3.2.1 Table A UN No. 1202	3.2.1 Table A UN No. 1202	3.2.1 Table A UN No. 1202	DIESEL FUEL complying with standard EN 590:2004 or GAS OIL or HEATING OIL, LIGHT with a flash-point as specified in EN 590:2004	EN 00590:2004	**EN 590:2009+ A1:2012**	Automotive fuels - Diesel - Requirements and test methods	General purpose standard
3.2.1 Table A UN No. 1202	3.2.1 Table A UN No. 1202	3.2.1 Table A UN No. 1202	DIESEL FUEL complying with standard EN 590:2004 or GAS OIL or HEATING OIL, LIGHT with a flash-point as specified in EN 590:2004	EN 00590:2004	**EN 590:2009+ A1:2013**	Automotive fuels - Diesel - Requirements and test methods	General purpose standard
		3.2.3 Footnotes related to the list of substances, Nr. 8)	No maximum experimental safe gap (MESG) has been measured in accordance with	EN 50014	**EN 60079-0:2007**	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements	General purpose standard

		3.2.4.2 No. 3.1	Auto-ignition temperature in accordance with IEC 60079-4 (corresponds to DIN 51 794) ..... º C; where applicable, indicate the temperature class in accordance with EN 50 014: 1994.	EN 50014:1994	**EN 60079-0:2007**	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements	General purpose standard
		3.2.4.2 No. 3.2	Explosion limits: Determination of upper and lower explosion limits in accordance with	EN 01839:2004	EN 1839:2004	Determination of explosion limits of gases and vapours	General purpose standard
		3.2.4.2 No. 3.2	Closed-cup test methods - non-equilibrium procedure - PENSKY-MARTENS method: …	EN ISO 002719:2004	EN ISO 2719:2004	Determination of flash point - Pensky-Martens closed cup method	General purpose standard
		3.2.4.2 No. 3.2	Closed-cup test methods - equilibrium procedure - Closed-cup equilibrium procedure: …	EN ISO 01523:2002	**EN ISO 1523:2002 + AC1:2006**	Determination of flash point - Closed cup equilibrium method (ISO 1523:2002)	General purpose standard
		3.2.4.2 No. 3.2	In addition to the above-mentioned methods, the following open-cup test method may be applied: CLEVELAND method: …	EN ISO 02592:2002	EN ISO 2592:2002	Petroleum products - Determination of flash and fire points - Cleveland open cup method (ISO 2592:2000)	General purpose standard
		3.2.4.2 No. 3.2	Closed-cup test methods - equilibrium procedure - Rapid equilibrium procedure: …	EN ISO 03679:2004	EN ISO 3679:2004	Determination of flash point - Rapid equilibrium closed cup method (ISO 3679:2004)	General purpose standard
		3.2.4.2 No. 3.2	Closed-cup test methods - non-equilibrium procedure - ABEL method: EN ISO 13736:1997	EN ISO 13736:1997	**EN ISO 13736:2009**	Determination of flash point - Abel closed-cup method (ISO 13736:2008)	General purpose standard
4.1.1.19.6 Table (Assimilation list), UN No. 1202 Diesel fuel	4.1.1.19.6 Table (Assimilation list), UN No. 1202 Diesel fuel		Diesel fuel: complying with EN 590:2004 or with a flashpoint not more than 100 °C	EN 00590:2004	**EN 590:2009+A1:2014**	Automotive fuels - Diesel - Requirements and test methods	General purpose standard
4.1.1.19.6 Table (Assimilation list), UN No. 1202 heating oil, light	4.1.1.19.6 Table (Assimilation list), UN No. 1202 heating oil, light		Heating oil, light: complying with EN 590:2004 or with a flashpoint not more than 100 °C	EN 00590:2004	**EN 590:2009+A1:2015**	Automotive fuels - Diesel - Requirements and test methods	General purpose standard

4.1.4.1 P200 (10) v) b)	4.1.4.1 P200 (10) v) b)		in accordance with the requirements of a technical code or a standard recognised by the competent authority, or standard	EN 01440:1996	**EN 1440:2008**	LPG equipment and accessories - Periodic inspection of transportable refillable LPG cylinders	**Dedicated standard**
4.1.4.1 P200 (11)	4.1.4.1 P200 (11)		The applicable requirements of this packing instruction are considered to have been complied with if the following standards, as relevant, are applied:	EN 01439:2008 (except 3.5. and Annex C)	EN 1439:2008	LPG equipment and accessories - Transportable refillable welded and brazed steel Liquefied Petroleum Gas (LPG) cylinders - Procedures for checking before, during and after filling	**Dedicated standard**
4.1.4.1 P200 (11)	4.1.4.1 P200 (11)		The applicable requirements of this packing instruction are considered to have been complied with if the following standards, as relevant, are applied:	EN 01801:1998	EN 1801:1998	Transportable gas cylinders – Filling conditions for single acetylene cylinders (including list of permissible porous materials)	**Dedicated standard**
4.1.4.1 P200 (11)	4.1.4.1 P200 (11)		The applicable requirements of this packing instruction are considered to have been complied with if the following standards, as relevant, are applied:	EN 01919:2000	EN 1919:2000	Transportable gas cylinders. Cylinders for gases (excluding acetylene and LPG) - Inspection at time of filling	**Dedicated standard**
4.1.4.1 P200 (11)	4.1.4.1 P200 (11)		The applicable requirements of this packing instruction are considered to have been complied with if the following standards, as relevant, are applied:	EN 01920:2000	EN 1920:2000	Transportable gas cylinders. Cylinders for compressed gases (excluding acetylene) - Inspection at time of filling	**Dedicated standard**
4.1.4.1 P200 (11)	4.1.4.1 P200 (11)		The applicable requirements of this packing instruction are considered to have been complied with if the following standards, as relevant, are applied:	EN 12755:2000	EN 12755:2000	Transportable gas cylinders – Filling conditions for acetylene bundles	**Dedicated standard**
4.1.4.1 P200 (11)	4.1.4.1 P200 (11)		The applicable requirements of this packing instruction are considered to have been complied with if the following standards, as relevant, are applied: …	EN 13365:2002+ A1:2005	**EN 13365:2002+ A1:2005**	Transportable gas cylinders – Cylinder bundles for permanent and liquefied gases (excluding acetylene) – Inspection at the time of filling	**Dedicated standard**

4.1.4.1 P200 (11)	4.1.4.1 P200 (11)		The applicable requirements of this packing instruction are considered to have been complied with if the following standards, as relevant, are applied:	EN 14794:2005	EN 14794:2005	LPG equipment and accessories - Transportable refillable aluminium cylinders for liquefiedpetroleum gas (LPG) - Procedures for checking before, during and after filling	**Dedicated standard**
4.1.4.1 P200 (11)	4.1.4.1 P200 (11)		The applicable requirements of this packing instruction are considered to have been complied with if the following standards, as relevant, are applied:	EN 12754:2001	EN 12754:2001	Transportable gas cylinders. Cylinders for dissolved acetylene - Inspection at time of filling	**Dedicated standard**
4.1.4.1 P200(12) 1.3	4.1.4.1 P200(12) 1.3		For the application of this section, … cylinders … shall have been manufactured in conformity with…	EN 01442	**EN 1442:2008**	LPG equipment and accessories - Transportable refillable welded steel cylinders for LPG - Design and construction	**Dedicated standard**
4.1.4.1 P200(12) 1.3	4.1.4.1 P200(12) 1.3		For the application of this section, … cylinders … shall have been manufactured in conformity with…	EN 13322-1	**EN 13322-1:2003+ A1:2006**	Transportable gas cylinders - Refillable welded steel gas cylinders - Design and construction - Part 1: Carbon steel	**Dedicated standard**
4.1.4.1 P200(12) 2.5	4.1.4.1 P200(12) 2.5		… only gases of high quality … shall be filled … This is deemed to be fulfilled, if the gases conform to the corrosion contaminates level of EN 1440:2008, ...	EN 01440:2008	EN 1440:2008	LPG equipment and accessories - Periodic inspection of transportable refillable LPG cylinders	**Dedicated standard**
4.1.4.1 P200(12) 3.4	4.1.4.1 P200(12) 3.4		Cylinders … shall only be fitted with valves … according to ...	EN 13152:2001 +A1:2003	EN 13152:2001 +A1:2003	Specification and testing of LPG cylinder valves - Self closing	**Dedicated standard**
4.1.4.1 P200(12) 3.4	4.1.4.1 P200(12) 3.4		Cylinders … shall only be fitted with valves … according to ...	EN 13153:2001 + A1:2003	EN 13153:2003	Specification and testing for liquefied petroleum gas (LPG) cylinder valves - Manually operated	**Dedicated standard**
4.1.4.1 P200(12) 3.4	4.1.4.1 P200(12) 3.4		… valves, which have been refurbished or inspected according to EN 14912:2005	EN 14912:2005	EN 14912:2005	LPG equipment and accessories - Inspection and maintenance of LPG cylinder valves at time of periodic inspection of cylinders	**Dedicated standard**

4.1.4.1. P200(12) 2.1	4.1.4.1. P200(12) 2.1		Cylinders … shall only be filled … applying … to ensure that … the requirements and responsibilities of EN 1439:2008 are fulfilled …	EN 01439-1:2008	EN 1439:2008	LPG equipment and accessories - Transportable refillable welded and brazed steel Liquefied Petroleum Gas (LPG) cylinders - Procedures for checking before, during and after filling	**Dedicated standard**
4.1.6.14	4.1.6.14		For other pressure receptacles, the requirements of section 4.1.6 are considered to have been complied with if the following standards, as relevant, are applied: …	EN 00962:1996 + A2:2000	**ISO 11117:2008**	Gas cylinders - Valve protection caps and valve guards - Design, construction and tests	**Dedicated standard**
4.1.6.14	4.1.6.14		For other pressure receptacles, the requirements of section 4.1.6 are considered to have been complied with if the following standards, as relevant, are applied: …	EN 13152:2001 + A1:2003	**EN 13152:2003**	Specification and testing of LPG cylinder valves - Self closing	**Dedicated standard**
4.1.6.14	4.1.6.14		For other pressure receptacles, the requirements of section 4.1.6 are considered to have been complied with if the following standards, as relevant, are applied: …	EN 13153:2001 + A1:2003	**EN 13153:2003**	Specification and testing for liquefied petroleum gas (LPG) cylinder valves - Manually operated	**Dedicated standard**
4.1.6.14	4.1.6.14		For other pressure receptacles, the requirements of section 4.1.6 are considered to have been complied with if the following standards, as relevant, are applied: …	EN ISO 10297:2006 Annex A	EN ISO 10297:2006	Transportable gas cylinders - Cylinder valves - Specification and type testing	**Dedicated standard**
5.4.3.4 Instruction in writing	5.4.3.4 Instruction in writing		The following equipment shall be carrie … suitable warning clothing (e.g. as described in …)	EN 00471	**EN 471:2008**	High-visibility warning clothing for professional use - Test methods and requirements	General purpose standard
5.4.3.4 Instruction in writing - Foot Note b)			Additional equipment required for certain classes: - an emergency escape mask … which is similar to that described in the EN 141	EN 00141	**EN 14387:2008**	Respiratory protective devices - Gas filter(s) and combined filter(s) - Requirements, testing, marking	General purpose standard
6.2.2.9	6.2.2.9		Xa means the competent authority, its delegate or inspection body conforming to 1.8.6.4 and accredited according to EN ISO/IEC 17020:2004 type A.	EN ISO/IEC 17020:2004	EN ISO/IEC 17020:2004	General criteria for the operation of various types of bodies performing inspection (ISO/IEC 17020:1998)	General purpose standard

6.2.2.9	6.2.2.9		Xb means inspection body conforming to 1.8.6.4 and accredited according to EN ISO/IEC 17020:2004 type B.	EN ISO/IEC 17020:2004	EN ISO/IEC 17020:2004	General criteria for the operation of various types of bodies performing inspection (ISO/IEC 17020:1998)	General purpose standard
6.2.2.9	6.2.2.9		IS means an in-house inspection service of the applicant under the surveillance of an inspection body conforming to 1.8.6.4 and accredited according to EN ISO/IEC 17020:2004 type A.	EN ISO/IEC 17020:2004	EN ISO/IEC 17020:2004	General criteria for the operation of various types of bodies performing inspection (ISO/IEC 17020:1998)	General purpose standard
6.2.3.6.1	6.2.3.6.1		Xa means the competent authority, its delegate or inspection body conforming to 1.8.6.4 and accredited according to EN ISO/IEC 17020:2004 type A.	EN ISO/IEC 17020:2004	EN ISO/IEC 17020:2004	General criteria for the operation of various types of bodies performing inspection (ISO/IEC 17020:1998)	General purpose standard
6.2.3.6.1	6.2.3.6.1		Xb means inspection body conforming to 1.8.6.4 and accredited according to EN ISO/IEC 17020:2004 type B.	EN ISO/IEC 17020:2004	EN ISO/IEC 17020:2004	General criteria for the operation of various types of bodies performing inspection (ISO/IEC 17020:1998)	General purpose standard
6.2.3.6.1	6.2.3.6.1		IS means an in-house inspection service of the applicant under the surveillance of an inspection body conforming to 1.8.6.4 and accredited according to EN ISO/IEC 17020:2004 type A.	EN ISO/IEC 17020:2004	EN ISO/IEC 17020:2004	General criteria for the operation of various types of bodies performing inspection (ISO/IEC 17020:1998)	General purpose standard
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . For closures:	EN 00849:1996 (except Annex A)	**EN ISO 10297:2006**	Transportable gas cylinders - Cylinder valves - Specification and type testing (ISO 10297:2006)	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . For closures:	EN 00849:1996 +A2:2001	**EN ISO 10297:2006**	Transportable gas cylinders - Cylinder valves - Specification and type testing (ISO 10297:2006)	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 01251-2:2000	**EN 1251-2:2000+ AC:2006**	Cryogenic vessels - Transportable vacuum insulated vessels of not more than 1000 litres volume - Part 2: Design, fabrication, inspection and testing	**Dedicated standard**

6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 01442:1998 + A2:2005	**EN 1442:2008**	LPG equipment and accessories - Transportable refillable welded steel cylinders for LPG - Design and construction	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 01442:1998 + AC: 1999	**EN 1442:2006+ A1:2008**	LPG equipment and accessories - Transportable refillable welded steel cylinders for LPG - Design and construction	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 01442:2006 + A1:2008	**EN 1442:2008**	LPG equipment and accessories - Transportable refillable welded steel cylinders for LPG - Design and construction	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 01800:1998 + AC:1999	**EN 1800:2006**	Transportable gas cylinders - Acetylene cylinders - Basic requirements, definitions and type testing	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 01800:2006	EN 1800:2006	Transportable gas cylinders - Acetylene cylinders - Basic requirements, definitions and type testing	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 01964-1:1999	EN 1964-1:1999	Transportable gas cylinders - Specification for the design and construction of refillable transportable seamless steel gas cylinders of water capacities from 0,5 litre up to and including 150 litres - Part 1: Cylinders made of seamless steel with an Rm value of less than 1100 MPa	**Dedicated standard**

6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 01964-2:2001	EN 1964-2:2001	Transportable gas cylinders - Specification for the design and construction of refillable transportable seamless steel gas cylinders of water capacities from 0,5 litre up to and including 150 litres - Part 2: Cylinders made of seamless steel with an Rm value of 1100 MPa and above	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 01964-3:2000	EN 1964-3:2000	Transportable gas cylinders - Specification for the design and construction of refillable transportable seamless steel gas cylinders of capacity from 0,5 litre up to and including 150 litres - Part 3: Cylinders made of stainless steel with a maximum Rm value of less than 1100 MPa	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 01975:1999 (exept Annex G)	EN 1975:1999 +A1:2003	Transportable gas cylinders - Specification for the design and construction of refillable transportable seamless aluminium and aluminium alloy gas cylinders of capacity from 0,5 litre up to 150 litres	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 01975:1999+ A1:2003	EN 1975:1999 +A1:2003	Transportable gas cylinders - Specification for the design and construction of refillable transportable seamless aluminium and aluminium alloy gas cylinders of capacity from 0,5 litre up to 150 litres	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 12205:2001	EN 12205:2001	Transportable gas cylinders - Non-refillable metallic gas cylinders	**Dedicated standard**

6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 12245:2002	**EN 12245:2009**	Transportable gas cylinders - Fully wrapped composite cylinders	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 12257:2002	EN 12257:2002	Transportable gas cylinders - Seamless, hoop-wrapped composite cylinders	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 12807:2001 (except Annex A)	**EN 12807:2009**	LPG equipment and accessories - Transportable refillable brazed steel cylinders for liquefied petroleum gas (LPG) - Design and construction	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 12807:2008	**EN 12807:2009**	LPG equipment and accessories - Transportable refillable brazed steel cylinders for liquefied petroleum gas (LPG) - Design and construction	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 12862:2000	EN 12862:2000	Transportable gas cylinders - Specification for the design and construction of refillable transportable welded aluminium alloy gas cylinders	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 13110-2002	EN 13110:2002	Transportable refillable welded aluminium cylinders for liquefied petroleum gas (LPG) - Design and construction	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . For closures:	EN 13152:2001	**EN 13152:2001 +A1:2003**	Specification and testing of LPG cylinder valves - Self closing	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . For closures:	EN 13152:2001 + A1:2003	EN 13152:2001 +A1:2003	Specification and testing of LPG cylinder valves - Self closing	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . For closures:	EN 13153:2001	**EN 13153:2001 +A1:2003**	Specification and testing of LPG cylinder valves - Manually operated	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . For closures:	EN 13153:2001 + A1:2003	EN 13153:2001 +A1:2003	Specification and testing of LPG cylinder valves - Manually operated	**Dedicated standard**

6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 13293:2002	EN 13293:2002	Transportable gas cylinders - Specification for the design and construction of refillable transportable seamless normalized 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	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 13322-1:2003	**EN 13322-1:2003+ A1:2006**	Transportable gas cylinders - Refillable welded steel gas cylinders - Design and construction - Part 1: Carbon steel	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 13322-1:2003 + A1:2006	EN 13322-1:2003+ A1:2006	Transportable gas cylinders - Refillable welded steel gas cylinders - Design and construction - Part 1: Carbon steel	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 13322-2:2003	**EN 13322-2:2003 +A1:2006**	Transportable gas cylinders - Reffilable welded steel gas cylinders - Design and construction - Part 2: Stainless steel	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 13322-2:2003 + A1:2006	**EN 13322-2:2003 +A1:2007**	Transportable gas cylinders - Refillable welded steel gas cylinders - Design and construction - Part 2: Stainless steel	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 13769:2003	EN 13769:2003	Transportable gas cylinders – Cylinder bundles – Design, manufacture, identification and testing	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 13769:2003 + A1:2005	EN 13769:2003 + A1:2005	Transportable gas cylinders – Cylinder bundles – Design, manufacture,	**Dedicated standard**

						identification and testing	
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 14140:2003	**EN 14140:2003+ A1:2006**	LPG equipment and accessories - Transportable refillable welded steel cylinders for LPG - Alternative design and construction	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 14140:2003 + A1:2006	EN 14140:2003+ A1:2006	LPG equipment and accessories - Transportable refillable welded steel cylinders for LPG - Alternative design and construction	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 14208:2004	EN 14208:2004	Transportable gas cylinders - Specification for welded pressure drums up to 1000 litre capacity for the transport of gases - Design and construction	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 14427:2004	**EN 14427:2004 +A1:2005**	Transportable refillable composite cylinders for LPG - Design and construction	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 14427:2004 + A1:2005	EN 14427:2004 +A1:2005	Transportable refillable composite cylinders for LPG - Design and construction	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 14638-1:2006	EN 14638-1:2006	Transportable gas cylinders - Refillable welded receptacles of a capacity not exceeding 150 litres - Part 1: Welded austenitic stainless steel cylinders made to a design justified by experimental methods	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN 14893:2006 + AC:2007	EN 14893:2006 +AC:2007	LPG equipment and accessories - Transportable Liquefied Petroleum Gas (LPG) welded steel pressure drums with a capacity	**Dedicated standard**

						between 150 litres and 1 000 litres	
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . For closures:	EN ISO 10297: 2006	EN ISO 10297:2006	Transportable gas cylinders - Cylinder valves - Specification and type testing (ISO 10297:2006)	**Dedicated standard**
6.2.4.1	6.2.4.1		The standards referenced in the table below shall be applied … . for design and construction	EN ISO 11120:1999	EN 11120:1999	Gas cylinders - Refillable seamless steel tubes water capacity between 150 l and 3000 l - Design construction and testing (ISO 11120:1999)	**Dedicated standard**
6.2.4.2	6.2.4.2		The standards referenced in the table below shall be applied … For periodic inspection and test:	EN 01251-3: 2000	EN 1251-3:2000	Cryogenic vessels - Transportable vacuum insulated vessels of not more than 1000 litres volume - Part 3: Operational requirements	**Dedicated standard**
6.2.4.2	6.2.4.2		The standards referenced in the table below shall be applied … For periodic inspection and test:	EN 01802:2002 (except Annex B)	EN 1802:2002	Transportable gas cylinders - Periodic inspection and testing of seamless aluminium alloy gas cylinders	**Dedicated standard**
6.2.4.2	6.2.4.2		The standards referenced in the table below shall be applied … For periodic inspection and test:	EN 01803:2002 (except Annex B)	EN 1803:2002	Transportable gas cylinders - Periodic inspection and testing of welded carbon steel gas cylinders	**Dedicated standard**
6.2.4.2	6.2.4.2		The standards referenced in the table below shall be applied … For periodic inspection and test:	EN 01968:2002 + A1:2005 (except Annex B)	EN 1968:2002 + A1:2005	Transportable gas cylinders - Periodic inspection and testing of seamless steel gas cylinders	**Dedicated standard**
6.2.4.2	6.2.4.2		The standards referenced in the table below shall be applied … For periodic inspection and test: …	EN 12863:2002 + A1:2005	EN 12863:2002 +A1:2005	Transportable gas cylinders - Periodic inspection and maintenance of dissolved acetylene cylinders	**Dedicated standard**
6.2.4.2	6.2.4.2		The standards referenced in the table below shall be applied … For periodic inspection and test:	EN 14189:2003	EN 14189:2003	Transportable gas cylinders - Inspection and maintenance of cylinder valves at time of periodic	**Dedicated standard**

						inspection of gas cylinders	
6.2.4.2	6.2.4.2		The standards referenced in the table below shall be applied … For periodic inspection and test:	EN 14876:2007	EN 14876:2007	Transportable gas cylinders - Periodic inspection and testing of welded steel pressure drums	**Dedicated standard**
6.2.4.2	6.2.4.2		The standards referenced in the table below shall be applied … For periodic inspection and test:	EN 14912:2005	EN 14912:2005	LPG equipment and accessories - Inspection and maintenance of LPG cylinder valves at time of periodic inspection of cylinders	**Dedicated standard**
6.2.4.2	6.2.4.2		The standards referenced in the table below shall be applied … For periodic inspection and test:	EN ISO 11623:2002 (except clause 4)	EN ISO 11623:2002	Transportable gas cylinders - Periodic inspection and testing of composite gas cylinders (ISO 11623:2002)	**Dedicated standard**
6.2.5.4.2	6.2.5.4.2		A lower minimum elongation value is acceptable … as in the case of pressure receptacles constructed to comply with the characteristics given in the table in 6.2.5.4.1 (see also EN 1975:1999 + A1:2003).	EN 01975:1999 + A1:2003	EN 1975:1999 +A1:2003	Transportable gas cylinders - Specification for the design and construction of refillable transportable seamless aluminium and aluminium alloy gas cylinders of capacity from 0,5 litre up to 150 litres	**Dedicated standard**
6.2.6.4	6.2.6.4		The requirements of this section are deemed to be met if the following standards are complied with: …	EN 00417:2003	EN 417:2003	Non-refillable metallic gas cartridges for liquefied petroleum gases, with or without a valve, for use with portable appliances - Construction, inspection, testing and marking	General purpose standard
6.7.2.1	6.7.2.1		Fine grain steel means steel which has a ferritic grain size of 6 or finer when determined in accordance with …	EN 10028-3	**EN 10028-3:2009**	Flat products made of steels for pressure purposes - Part 3: Weldable fine grain steels, normalized	General purpose standard
	6.8.2.4.6		These requirements shall be met for: persons who are approved on the basis of an accrediting procedure in accordance with standard …	EN ISO/IEC 17020:2004	EN ISO/IEC 17020:2004	General criteria for the operation of various types of bodies performing inspection (ISO/IEC 17020:1998)	General purpose standard

6.8.2.6.1			The standards referred in the table below shall be applied ... For tanks for gases of Class 2:	EN 12252:2000	**EN 12252:2005+ A1:2008**	LPG equipment and accessories - Equipping of LPG road tankers	**Dedicated standard**
6.8.2.6.1			The standards referred in the table below shall be applied ... For tanks for gases of Class 2:	EN 12252:2005 + A1:2008	EN 12252:2005+ A1:2008	LPG equipment and accessories - Equipping of LPG road tankers	**Dedicated standard**
6.8.2.6.1			The standards referred in the table below shall be applied ... For tanks for gases of Class 2:	EN 12493:2001 (except Annex C)	**EN 12493:2008**	LPG equipment and accessories - Welded steel tanks for liquefied petroleum gas (LPG) - Road tankers design and manufacture	**Dedicated standard**
6.8.2.6.1			The standards referred in the table below shall be applied ... For tanks for gases of Class 2:	EN 12493:2008 (except Annex C)	EN 12493:2008	LPG equipment and accessories - Welded steel tanks for liquefied petroleum gas (LPG) - Road tankers design and manufacture	**Dedicated standard**
6.8.2.6.1			The standards referred in the table below shall be applied ... For tanks intended for the carriage of liquid petroleum products and other dangerous substances of Class 3 ... :	EN 13082:2001	**EN 13082:2008**	Tanks for transport of dangerous goods - Service equipment for tanks - Vapour transfer valve	**Dedicated standard**
6.8.2.6.1	6.8.2.6.1		The standards referred in the table below shall be applied ... For tanks with a maximum working pressure not exceeding 50 kPa ...:	EN 13094:200 8+AC:2008	**EN 13094:2008 +AC:2009**	Tanks for the transport of dangerous goods - Metallic tanks with a working pressure not exceeding 0,5 bar - Design and construction	**Dedicated standard**
6.8.2.6.1	6.8.2.6.1		The standards referred in the table below shall be applied ... For tanks with a maximum working pressure not exceeding 50 kPa ...:	EN 13094:2004	**EN 13094:2008 +AC:2009**	Tanks for the transport of dangerous goods - Metallic tanks with a working pressure not exceeding 0,5 bar - Design and construction	**Dedicated standard**
6.8.2.6.1	6.8.2.6.1		The standards referred in the table below shall be applied ... For tanks intended for the carriage of liquid petroleum products and other dangerous substances of Class 3 ... :	EN 13094:2004	**EN 13094:2008 +AC:2009**	Tanks for the transport of dangerous goods - Metallic tanks with a working pressure not exceeding 0,5 bar - Design and construction	**Dedicated standard**
6.8.2.6.1	6.8.2.6.1		The standards referred in the table below shall be applied ... For tanks intended for the carriage of liquid petroleum products and other	EN 13094:2008+ AC:2008	**EN 13094:2008 +AC:2009**	Tanks for the transport of dangerous goods - Metallic tanks with a working pressure not	**Dedicated standard**

			dangerous substances of Class 3 ... :			exceeding 0,5 bar - Design and construction	
6.8.2.6.1			The standards referred in the table below shall be applied ... For tanks intended for the carriage of liquid petroleum products and other dangerous substances of Class 3 ... :	EN 13308:2002	EN 13308:2002	Tanks for transport of dangerous goods - Service equipment for tanks - Non pressure balanced footvalve	**Dedicated standard**
6.8.2.6.1			The standards referred in the table below shall be applied ... For tanks intended for the carriage of liquid petroleum products and other dangerous substances of Class 3 ... :	EN 13314:2002	EN 13314:2002	Tanks for transport of dangerous goods - Service equipment for tanks - Fill hole cover	**Dedicated standard**
6.8.2.6.1			The standards referred in the table below shall be applied ... For tanks intended for the carriage of liquid petroleum products and other dangerous substances of Class 3 ... :	EN 13316:2002	EN 13316:2002	Tanks for transport of dangerous goods - Service equipment for tanks - Pressure balanced footvalve	**Dedicated standard**
6.8.2.6.1			The standards referred in the table below shall be applied ... For tanks intended for the carriage of liquid petroleum products and other dangerous substances of Class 3 ... :	EN 13317:2002 (except for the figure and table B.2 in Annex B) (The material shall meet the requirements of standard EN 13094:2004, Clause 5.2)	**EN 13317:2002+ A1:2006**	Tanks for transport of dangerous goods - Service equipment for tanks - Manhole cover assembly	**Dedicated standard**
6.8.2.6.1			The standards referred in the table below shall be applied ... For tanks intended for the carriage of liquid petroleum products and other dangerous substances of Class 3 ... :	EN 13317:2002 + A1:2006	EN 13317:2002+ A1:2006	Tanks for transport of dangerous goods - Service equipment for tanks - Manhole cover assembly	**Dedicated standard**
6.8.2.6.1			The standards referred in the table below shall be applied ... For tanks for gases of Class 2:	EN 13530-2:2002 + A1:2004	**EN 13530-2:2002 +AC:2006**	Cryogenic vessels - Large transportable vacuum insulated vessels - Part 2: Design, fabrication, inspection and testing	**Dedicated standard**
6.8.2.6.1			The standards referred in the table below shall be applied ... For tanks for gases of Class 2:	EN 13530-2:2002	**EN 13530-2:2002 +AC:2006**	Cryogenic vessels - Large transportable vacuum insulated vessels - Part 2: Design, fabrication, inspection and testing	**Dedicated standard**

6.8.2.6.1	6.8.2.6.1		The standards referred in the table below shall be applied ... For all tanks:	EN 14025:2003 + AC:2005	**EN 14025:2008**	Tanks for the transport of dangerous goods - Metallic pressure tanks - Design and Construction	**Dedicated standard**
6.8.2.6.1	6.8.2.6		The standards referred in the table below shall be applied ... For all tanks:	EN 14025:2008	EN 14025:2008	Tanks for the transport of dangerous goods - Metallic pressure tanks - Design and Construction	**Dedicated standard**
6.8.2.6.1			The standards referred in the table below shall be applied ... For tanks for gases of Class 2:	EN 14398-2:2003 (except Table 1)	**EN 14398-2:2003 +A2:2008**	Cryogenic vessels - Large transportable non-vacuum insulated vessels - Part 2: Design, fabrication, inspection and testing	**Dedicated standard**
6.8.2.6.1	6.8.2.6		The standards referred in the table below shall be applied ... For all tanks:	EN 14432:2006	EN 14432:2006	Tanks for the transport of dangerous goods – Tank equipment for the transport of liquid chemicals – Product discharge and air inlet valves	**Dedicated standard**
6.8.2.6.1	6.8.2.6.1		The standards referred in the table below shall be applied ... For all tanks:	EN 14433:2006	EN 14433:2006	Tanks for transport of dangerous goods – Tank equipment for the transport of liquid chemicals – Foot valves	**Dedicated standard**
6.8.2.6.1			The standards referred in the table below shall be applied ... For tanks intended for the carriage of liquid petroleum products and other dangerous substances of Class 3 ... :	EN 14595:2005	EN 14595:2005	Tanks for transport of dangerous goods - Service equipment for tanks - Pressure and Vacuum Breather Vent	**Dedicated standard**
6.8.2.6.2	6.8.2.6.2		The standards referred in the table below shall be applied for the inspection and test of tanks …	EN 12972:2007	EN 12972:2007	Tanks for transport of dangerous goods - Testing, inspection and marking of metallic tanks	**Dedicated standard**
6.8.3.6			The standards referred in the table below shall be applied for the issue of type approvals …	EN 13807:2003	**EN 13807:2003 +AC:2005**	Transportable gas cylinders - Battery vehicles - Design, manufacture, identification and testing	**Dedicated standard**

	6.8.4. b) TE 25 c)		If protection is provided by a sandwich cover, it shall cover the entire area of the tank ends and shall have a specific energy absorption capacity of at least 22 kJ ..., which shall be measured in accordance with the method described in Annex B to EN standard ...	EN 13094	**EN 13094:2008**	Tanks for the transport of dangerous goods - Metallic tanks with a working pressure not exceeding 0,5 bar - Design and construction	**Dedicated standard**
6.8.4 c) TA 4	6.8.4 c) TA 4		The conformity assessment procedures of section 1.8.7 shall be applied by the competent authority, its delegate or inspection body conforming to 1.8.6.4 and accredited to …	EN ISO/IEC 17020:2004	EN ISO/IEC 17020:2004	General criteria for the operation of various types of bodies performing inspection (ISO/IEC 17020:1998)	General purpose standard
6.8.4 e) TT 9	6.8.4 e) TT 9		For inspections and tests (including supervision of the manufacture) the procedures of section 1.8.7 shall be applied by the competent authority, its delegate or inspection body conforming to 1.8.6.4 and accredited according to …	EN ISO/IEC 17020:2004	EN ISO/IEC 17020:2004	General criteria for the operation of various types of bodies performing inspection (ISO/IEC 17020:1998)	General purpose standard
6.8.5.4	6.8.5.4		The requirements of 6.8.5.2 and 6.8.5.3 shall be deemed to have been complied with if the following relevant standards have been applied:	EN 01252-1:1998	**EN 1252-1:1998+ AC:1998**	Cryogenic vessels - Materials - Part 1: Toughness requirements for temperatures below -80℃	**Dedicated standard**
6.8.5.4	6.8.5.4		The requirements of 6.8.5.2 and 6.8.5.3 shall be deemed to have been complied with if the following relevant standards have been applied:	EN 01252-2:2001	EN 1252-2:2001	Cryogenic vessels - Materials - Part 2: Toughness requirements for temperatures between -80℃ and -20℃	**Dedicated standard**
6.9.2.5	6.9.2.5		The tests shall be carried out, in accordance with the requirements of …	EN 00061:1977	EN 61:1977	Glass reinforced plastics - Determination of tensile properties	General purpose standard
6.9.2.5	6.9.2.5		where "α" is the creep factor and "β" is the ageing factor determined in accordance with....after performance of the test according to …	EN 00977:1997	EN 977:1997	Underground tanks of glass-reinforced plastics (GRP) - Method for one side exposure to fluids	General purpose standard
6.9.2.5	6.9.2.5		where "α" is the creep factor and "β" is the ageing factor determined in accordance with …	EN 00978:1997	EN 978:1997	Underground tanks of glass-reinforced plastics (GRP) - Determination of factor alpha and factor beta	General purpose standard
6.9.2.10	6.9.2.10		is the bending shear strength according to …	EN ISO 14125:1998	**EN ISO 14125:1998 +AC:2002**	Fibre-reinforced plastic composites - Determination of flexural properties (ISO	General purpose standard

						14125:1998)	
6.9.4.2.1	6.9.4.2.1		The elongation at fracture according to …	EN ISO 00527-5:1997	**EN ISO 527-5:2009**	Plastics - Determination of tensile properties - Part 5: Test conditions for unidirectional fibre-reinforced plastic composites (ISO 527-5:2009)	General purpose standard
6.9.4.2.2	6.9.4.2.2		In addition, the creep factor / and the ageing factor 0 shall be determined by this test and according to	EN 00978:1997	EN 978:1997	Underground tanks of glass-reinforced plastics (GRP) - Determination of factor alpha and factor beta	General purpose standard
6.9.4.2.2	6.9.4.2.2		Bending strength and deflection established by the bending creep test according to	EN 14125:1998	**EN 14125:2004 +A1:2006**	Thermoplastic and flexible metal pipework for underground installation at petrol filling stations	General purpose standard
6.9.4.2.2	6.9.4.2.2		Tensile strength, elongation at fracture and modulus of elasticity according to …	EN ISO 00527-5:1997	**EN ISO 527-5:2009**	Plastics - Determination of tensile properties - Part 5: Test conditions for unidirectional fibre-reinforced plastic composites (ISO 527-5:2009)	General purpose standard
6.9.4.2.3	6.9.4.2.3		The interlaminate shear strength of the joints shall be measured by testing representative samples in the tensile test according to …	EN ISO 14130:1997	EN ISO 14130:1997	Fibre-reinforced plastic composites - Determination of apparent interlaminar shear strength by short-beam method (ISO 14130:1997)	General purpose standard
6.9.4.2.4	6.9.4.2.4		shall be subjected to the chemical compatibility test according to	EN 00977:1997	EN 977:1997	Underground tanks of glass-reinforced plastics (GRP) - Method for one side exposure to fluids	General purpose standard
6.9.4.2.4	6.9.4.2.4		the loss of strength and elasticity modulus measured by the bending test according to	EN 00978:1997	EN 978:1997	Underground tanks of glass-reinforced plastics (GRP) - Determination of factor alpha and factor beta	General purpose standard

6.9.4.3.3	6.9.4.3.3		The prototype shall be subjected to the ball drop test according to	EN 00976-1:1997	EN 976-1:1997	Underground tanks of glass-reinforced plastics (GRP) - Horizontal cylindrical tanks for the non-pressure storage of liquid petroleum based fuels - Part 1: Requirements and test methods for single wall tanks	General purpose standard
6.12.5 Note			Materials classified as class B-s3-d2 according to standard EN 13501 1:2002 are deemed to fulfil the fire resistance requirement.	EN 13501-1:2002	**EN 13501-1:2007+A1:2009**	Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests	General purpose standard
8.1.4.3			The extinguishing agent shall be suitable for use on a vehicle and shall comply with the relevant requirements of EN 3 Portable fire extinguishers	EN 00003-1:1996	**EN 3-7:2004 +A1:2007**	Portable fire extinguishers - Part 7: Characteristics, performance requirements and test methods	General purpose standard
8.1.4.3			The extinguishing agent shall be suitable for use on a vehicle and shall comply with the relevant requirements of EN 3 Portable fire extinguishers	EN 00003-2:1996	**EN 3-7:2004 +A1:2007**	Portable fire extinguishers - Part 7: Characteristics, performance requirements and test methods	General purpose standard
8.1.4.3			The extinguishing agent shall be suitable for use on a vehicle and shall comply with the relevant requirements of EN 3 Portable fire extinguishers	EN 00003-3:1994	**withdrawn**		General purpose standard
8.1.4.3			The extinguishing agent shall be suitable for use on a vehicle and shall comply with the relevant requirements of EN 3 Portable fire extinguishers	EN 00003-4:1996	**EN 3-7:2004 +A1:2007**	Portable fire extinguishers - Part 7: Characteristics, performance requirements and test methods	General purpose standard
8.1.4.3			The extinguishing agent shall be suitable for use on a vehicle and shall comply with the relevant requirements of EN 3 Portable fire extinguishers	EN 00003-5:1996	**EN 3-7:2004 +A1:2007**	Portable fire extinguishers - Part 7: Characteristics, performance requirements and test methods	General purpose standard
8.1.4.3			The extinguishing agent shall be suitable for use on a vehicle and shall comply with the relevant requirements of EN 3 Portable fire extinguishers	EN 00003-6:1995	**EN 3-10:2009**	Portable fire extinguishers - Part 10: Provisions for evaluating the conformity of a portable fire extinguisher to EN 3-7	General purpose standard

8.1.4.4			For the definition of the inflammability classes, see Standard EN 2:1992 Classification of fires.	EN 00002:1992	**EN 2:1992 + A1:2004**	Classification of fires	General purpose standard
8.1.5.2			A warning vest (e.g. as described in the EN 471 standard);	EN 00471	**EN 471:2008**	High-visibility warning clothing for professional use - Test methods and requirements	General purpose standard
8.1.5.3 Footnote 3)			For example an emergency escape mask with a combined gas/dust filter of the A1B1E1K1-P1 or A2B2E2K2-P2 type which is similar to that described in the EN 141 standard.	EN 00141	**EN 14387:2008**	Respiratory protective devices - Gas filter(s) and combined filter(s) - Requirements, testing, marking	General purpose standard
		8.1.6.2	Hoses and hose assemblies used for loading, unloading or delivering products shall comply with European standard …	EN 10380:2003	**EN ISO 10380:2003**	Pipework - Corrugated metal hoses and hose assemblies (ISO 10380:2003)	General purpose standard
		8.1.6.2	They shall be checked and inspected in accordance with table 6 of standard EN ..or paragraph 7 of standard …	EN 10380:2003	**EN ISO 10380:2003**	Pipework - Corrugated metal hoses and hose assemblies (ISO 10380:2003)	General purpose standard
		8.1.6.2	Hoses and hose assemblies used for loading, unloading or delivering products shall comply with European standard …	EN 12115:1999	EN 12115:1999	Rubber and thermoplastics hoses and hose assemblies for liquid or gaseous chemicals - Specification	General purpose standard
		8.1.6.2	They shall be checked and inspected in accordance with table 6 of standard …	EN 12115:1999	EN 12115:1999	Rubber and thermoplastics hoses and hose assemblies for liquid or gaseous chemicals - Specification	General purpose standard
		8.1.6.2	Hoses and hose assemblies used for loading, unloading or delivering products shall comply with European standard	EN 13765:2003	**EN 13765:2010**	Thermoplastic multi-layer (non-vulcanized) hoses and hose assemblies for the transfer of hydrocarbons, solvents and chemicals - Specification	General purpose standard
		8.1.6.2	They shall be checked and inspected in accordance with table 6 of standard EN ..or table K.1 of standard	EN 13765:2003	**EN 13765:2010**	Thermoplastic multi-layer (non-vulcanized) hoses and hose assemblies for the transfer of hydrocarbons, solvents and chemicals - Specification	General purpose standard

9.1.1.2 a)			A vehicle intended for the carriage of liquids having a flash-point of not more than 60°C (with the exception of diesel fuel complying with standard …	EN 00590:2004	**EN 590:2009+ A1:2016**	Automotive fuels - Diesel - Requirements and test methods	General purpose standard
9.1.1.2 a)			gas oil, and heating oil (light) - UN No. 1202 - with a flash-point as specified in standard …	EN 00590:2004	**EN 590:2009+ A1:2017**	Automotive fuels - Diesel - Requirements and test methods	General purpose standard
9.2.2.5.1 a) Note 2)			As an alternative, the general requirements of EN 50014 and the additional requirements of EN ... may be used	EN 50014	**IEC 60079-0:2007**	Explosive atmospheres - Part 0: Equipment - General requirements	General purpose standard
9.2.2.5.1 a) Note 2)			As an alternative, the general requirements of EN 50014 and the additional requirements of EN ... may be used	EN 50015	**IEC 60079-6:2007**	Explosive atmospheres - Part 6: Equipment protection by oil immersion "o"	General purpose standard
9.2.2.5.1 a) Note 2)			As an alternative, the general requirements of EN 50014 and the additional requirements of EN ... may be used	EN 50016	**IEC 60079-2:2007**	Explosive atmospheres - Part 2: Equipment protection by pressurized enclosures "p"	General purpose standard
9.2.2.5.1 a) Note 2)			As an alternative, the general requirements of EN 50014 and the additional requirements of EN ... may be used	EN 50017	**IEC 60079-5:2007**	Explosive atmospheres - Part 5: Equipment protection by powder filling "q"	General purpose standard
9.2.2.5.1 a) Note 2)			As an alternative, the general requirements of EN 50014 and the additional requirements of EN ... may be used	EN 50018	**EN 50018:2000**	Electrical apparatus for potentially explosive atmospheres. Flameproof enclosure 'd'	General purpose standard
9.2.2.5.1 a) Note 2)			As an alternative, the general requirements of EN 50014 and the additional requirements of EN ... may be used	EN 50019	**IEC 60079-7:2006**	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"	General purpose standard
9.2.2.5.1 a) Note 2)			As an alternative, the general requirements of EN 50014 and the additional requirements of EN ... may be used	EN 50020	**EN 50020:2002**	Electrical apparatus for potentially explosive atmospheres. Intrinsic safety 'i'	General purpose standard
9.2.2.5.1 a) Note 2)			As an alternative, the general requirements of EN 50014 and the additional requirements of EN ... may be used	EN 50021	**EN 50021:1999**	Electrical apparatus for potentially explosive atmospheres. Type of protection "n"	General purpose standard
9.2.2.5.1 a) Note 2)			As an alternative, the general requirements of EN 50014 and the additional requirements of EN ... may be used	EN 50028	**EN 60079-18:2004**	Electrical apparatus for potentially explosive atmospheres. Encapsulation 'm'	General purpose standard

		9.3.1.21. 5 a)	The signal shall be transmitted to the shore facility via a watertight two-pin plug of a connector device in accordance with standard ..	EN 60309-2:1999	**EN 60309-2:2005**	Plugs, socket-outlets and couplers for industrial purposes - Part 2: Dimensional interchangeability requirements for pin and contact-tube accessories	General purpose standard
		9.3.1.21. 5 b)	It shall be possible for the binary signal of the shore facility to be transmitted via a watertight two-pole socket or a connector device in accordance with standard …	EN 60309-2:1999	**EN 60309-2:2005**	Plugs, socket-outlets and couplers for industrial purposes - Part 2: Dimensional interchangeability requirements for pin and contact-tube accessories	General purpose standard
		9.3.2.21. 5 a)	The signal shall be transmitted to the shore facility via a watertight two-pin plug of a connector device in accordance with standard ..	EN 60309-2:1999	**EN 60309-2:2005**	Plugs, socket-outlets and couplers for industrial purposes - Part 2: Dimensional interchangeability requirements for pin and contact-tube accessories	General purpose standard
		9.3.2.21. 5 b)	It shall be possible for the binary signal of the shore facility to be transmitted via a watertight two-pole socket or a connector device in accordance with standard …	EN 60309-2:1999	**EN 60309-2:2005**	Plugs, socket-outlets and couplers for industrial purposes - Part 2: Dimensional interchangeability requirements for pin and contact-tube accessories	General purpose standard
		9.3.2.21. 5 c)	Vessels … shall be equipped with a transhipment facility compatible with European standard …	EN 12827:1996	**EN 12827:1999**	Inland navigation vessels - Connections for the transfer of diesel oil	General purpose standard
		9.3.3.21. 5 a)	The signal shall be transmitted to the shore facility via a watertight two-pin plug of a connector device in accordance with standard	EN 60309-2:1999	**EN 60309-2:2005**	Plugs, socket-outlets and couplers for industrial purposes - Part 2: Dimensional interchangeability requirements for pin and contact-tube accessories	General purpose standard
		9.3.3.21. 5 c)	Supply vessels … shall be equipped with a transshipment facility compatible with European standard	EN 12827:1996	**EN 12827:1999**	Inland navigation vessels - Connections for the transfer of diesel oil	General purpose standard
		9.3.3.21. 5 d)	It shall be possible for the binary signal of the shore facility to be transmitted via a watertight two-pole socket or a connector device in accordance with	EN 60309-2:1999	**EN 60309-2:2005**	Plugs, socket-outlets and couplers for industrial purposes - Part 2: Dimensional	General purpose standard

			standard			interchangeability requirements for pin and contact-tube accessories	
9.3.4.2			Materials classified as Class B-s3-d2 according to standard	EN 13501-1:2002	**EN 13501-1:2007+A1:2009**	Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests	General purpose standard
9.7.8.2 Note 2)			As an alternative, the general requirements of EN 50014 and the additional requirements of EN 50015, 50016, 50017, 50018, 50019, 50020 or 50028 may be used.	EN 50014	**EN 60079-0:2007**	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements	General purpose standard
9.7.8.2 Note 2)			As an alternative, the general requirements of EN 50014 and the additional requirements of EN 50015, 50016, 50017, 50018, 50019, 50020 or 50028 may be used.	EN 50015	**IEC 60079-6:2007**	Explosive atmospheres - Part 6: Equipment protection by oil immersion "o"	General purpose standard
9.7.8.2 Note 2)			As an alternative, the general requirements of EN 50014 and the additional requirements of EN 50015, 50016, 50017, 50018, 50019, 50020 or 50028 may be used.	EN 50016	**IEC 60079-2:2007**	Explosive atmospheres - Part 2: Equipment protection by pressurized enclosures "p"	General purpose standard
9.7.8.2 Note 2)			As an alternative, the general requirements of EN 50014 and the additional requirements of EN 50015, 50016, 50017, 50018, 50019, 50020 or 50028 may be used.	EN 50017	**IEC 60079-5:2007**	Explosive atmospheres - Part 5: Equipment protection by powder filling "q"	General purpose standard
9.7.8.2 Note 2)			As an alternative, the general requirements of EN 50014 and the additional requirements of EN 50015, 50016, 50017, 50018, 50019, 50020 or 50028 may be used.	EN 50018	**EN 50018:2000**	Electrical apparatus for potentially explosive atmospheres. Flameproof enclosure 'd'	General purpose standard
9.7.8.2 Note 2)			As an alternative, the general requirements of EN 50014 and the additional requirements of EN 50015, 50016, 50017, 50018, 50019, 50020 or 50028 may be used.	EN 50019	**IEC 60079-7:2003**	Electrical apparatus for potentially explosive atmospheres. Increased safety 'e'	General purpose standard
9.7.8.2 Note 2)			As an alternative, the general requirements of EN 50014 and the additional requirements of EN 50015, 50016, 50017, 50018, 50019, 50020 or 50028 may be used.	EN 50020	**EN 50020:2002**	Betriebsmittel für explosionsgefährdete Bereiche - Eigensicherheit "i"	General purpose standard

9.7.8.2 Note 2)			As an alternative, the general requirements of EN 50014 and the additional requirements of EN 50015, 50016, 50017, 50018, 50019, 50020 or 50028 may be used.	EN 50028	**EN 60079-18:2004**	Electrical apparatus for potentially explosive atmospheres. Encapsulation 'm'	General purpose standard