

STN	Zvárané oceľové rúry na tlakové účely Technické dodacie podmienky Časť 1: Elektricky zvarané a zvarané pod tavivom nelegované oceľové rúry so špecifikovanými vlastnosťami pri teplote miestnosti	STN EN 10217-1 42 5719
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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

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 09/19

Obsahuje: EN 10217-1:2019

Oznámením tejto normy sa ruší
STN EN 10217-1 (42 5719) z októbra 2003

129214

EUROPEAN STANDARD

EN 10217-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2019

ICS 23.040.10; 77.140.75

Supersedes EN 10217-1:2002

English Version

**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**

Tubes soudés en acier pour service sous pression -
Conditions techniques de livraison - Partie 1 : Tubes en
acier non allié, soudés électriquement et soudés à l'arc
immergé, avec caractéristiques spécifiées à
température ambiante

Geschweißte Stahlrohre für Druckbeanspruchungen -
Technische Lieferbedingungen - Teil 1: Elektrisch
geschweißte und unterpulvergeschweißte Rohre aus
unlegierten Stählen mit festgelegten Eigenschaften bei
Raumtemperatur

This European Standard was approved by CEN on 25 February 2019.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents

Page

European foreword.....	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	7
4 Symbols	8
5 Classification and designation	8
5.1 Classification	8
5.2 Designation	8
6 Information to be supplied by the purchaser	9
6.1 Mandatory information	9
6.2 Options	9
6.3 Example of an order	10
7 Manufacturing process	10
7.1 Steelmaking process	10
7.2 Tube manufacture and delivery conditions	10
7.3 Non Destructive Testing Personnel Requirements	12
8 Requirements	12
8.1 General	12
8.2 Chemical composition	12
8.2.1 Cast analysis	12
8.2.2 Product analysis	14
8.3 Mechanical properties	14
8.4 Appearance and internal soundness	15
8.4.1 Weld seam	15
8.4.2 Tube surface	16
8.4.3 Internal soundness	16
8.5 Straightness	16
8.6 Preparation of ends	16
8.7 Dimensions, masses and tolerances	17
8.7.1 Diameter and wall thickness	17
8.7.2 Mass	17
8.7.3 Lengths	17
8.7.4 Tolerances	22
9 Inspection	24
9.1 Types of Inspection and inspection documents	24
9.2 Content of inspection documents	25
9.3 Summary of inspection and testing	26
10 Sampling	28
10.1 Frequency of tests	28
10.1.1 Test unit	28
10.1.2 Number of sample tubes per test unit	28
10.2 Preparation of samples and test pieces	28
10.2.1 Selection and preparation of samples for product analysis	28
10.2.2 Location, orientation and preparation of samples and test pieces for mechanical tests	28
11 Verification of test methods	30
11.1 Chemical analysis	30
11.2 Tensile test on the tube body	30

11.3	Transverse tensile test on the weld	30
11.4	Flattening test	30
11.5	Drift expanding test	31
11.6	Weld bend test	31
11.7	Impact test	31
11.8	Leak tightness test	32
11.8.1	Hydrostatic test	32
11.8.2	Electromagnetic test	33
11.9	Dimensional inspection	33
11.10	Visual examination	33
11.11	Non-Destructive Testing	33
11.11.1	General	33
11.11.2	EW and HFW tubes	33
11.11.3	SAW tubes	33
11.11.4	Strip end welds in SAWH tubes	34
11.12	Retest, sorting and reprocessing	34
12	Marking	34
12.1	Marking to be applied	34
12.2	Additional marking	35
13	Protection	35
Annex A	(normative) Qualification of welding procedure for quality TR2 SAW tube	
	production	36
A.1	General	36
A.2	Welding procedure specification	36
A.2.1	General	36
A.2.2	Parent metal	36
A.2.3	Weld preparation	36
A.2.4	Filler wires and fluxes	36
A.2.5	Electrical parameters	37
A.2.6	Mechanical parameters	37
A.2.7	Heat input (kJ/mm)	37
A.2.8	Preheat temperature	37
A.2.9	Interpass temperature	37
A.2.10	Postweld heat treatment	37
A.2.11	Example of welding procedure specification form	37
A.3	Preparation of sample tube and sample assessment	38
A.3.1	Sample tube	38
A.3.2	Sample assessment	38
A.4	Inspection and testing of the weld	38
A.5	Weld test pieces	39
A.5.1	Weld bend test pieces	39
A.5.2	Macro-examination	39
A.5.3	Transverse weld tensile test	39
A.5.4	Weld impact test	39
A.6	Test methods	39

A.6.1	Visual examination	39
A.6.2	NDT test	39
A.6.3	Weld bend test	39
A.6.4	Macro-examination	39
A.6.5	Transverse weld tensile test	40
A.6.6	Weld impact test	40
A.7	Test acceptance levels	40
A.7.1	Visual examination	40
A.7.2	NDT test	40
A.7.3	Weld bend test	40
A.7.4	Macro-examination	40
A.7.5	Transverse weld tensile test	40
A.7.6	Weld impact test	40
A.7.7	Example of test result document	40
A.8	Range of use of qualified procedures	42
A.8.1	Materials groups	42
A.8.2	Materials thickness	42
A.8.3	Filler wire classification	42
A.8.4	Welding flux	42
A.8.5	Other parameters	42
A.9	Qualification record	42
Annex B (informative) Technical changes from the previous edition		43
B.1	Introduction	43
B.2	Technical changes	43
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of 2014/68/EU		45
Bibliography		46

European foreword

This document (EN 10217-1:2019) has been prepared by Technical Committee CEN/TC 459 “ECISS - European Committee for Iron and Steel Standardization”¹, the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2019, and conflicting national standards shall be withdrawn at the latest by October 2019.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 10217-1:2002.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive 2014/68/EU.

For relationship with EU Directive 2014/68/EU (formerly 97/23/EC), see informative Annex ZA, which is an integral part of this document.

This European Standard consists of the following parts, under the general title *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;*
- *Part 2: Electric welded non-alloy and alloy steel tubes with specified elevated temperature properties;*
- *Part 3: Electric welded and submerged arc welded alloy fine grain steel tubes with specified room, elevated and low temperature properties;*
- *Part 4: Electric welded non-alloy steel tubes with specified low temperature properties;*
- *Part 5: Submerged arc welded non-alloy and alloy steel tubes with specified elevated temperature properties;*
- *Part 6: Submerged arc welded non-alloy steel tubes with specified low temperature properties;*
- *Part 7: Stainless steel tubes.*

Another European Standard series covering tubes for pressure purposes is:

EN 10216, *Seamless steel tubes for pressure purposes.*

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

¹ Through its subcommittee SC 10 “Steel tubes, and iron and steel fittings” (secretariat: UNI)

1 Scope

This document specifies the technical delivery conditions for qualities TR1 and TR2 of electric welded and submerged arc welded tubes of circular cross section, with specified room temperature properties, made from non-alloy quality steel.

NOTE 1 Quality TR2 is intended to support the essential requirements of EU Directive 2014/68/EU in respect of pressure equipment with specified room temperature properties (see Table 5).

NOTE 2 Once this standard is published in the Official Journal of the European Union (OJEU), presumption of conformity to the Essential Safety Requirements (ESR) of Directive 2014/68/EU is limited to the technical data for the materials in this standard and does not presume adequacy of the material for a specific item of pressure equipment. Consequently, the assessment of the technical data stated in this material standard against the design requirements of a specific item of equipment to verify that the ESRs of the Pressure Equipment Directive are satisfied, needs to be done by the designer or manufacturer of the pressure equipment, taking also into account any subsequent processing procedures which may affect properties of the base materials.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 10020, *Definition and classification of grades of steel*

EN 10021:2006, *General technical delivery conditions for steel products*

EN 10027-1, *Designation systems for steels — Part 1: Steel names*

EN 10027-2, *Designation systems for steels — Part 2: Numerical system*

EN 10168:2004, *Steel products — Inspection documents — List of information and description*

EN 10204:2004, *Metallic products — Types of inspection documents*

EN 10220, *Seamless and welded steel tubes — Dimensions and masses per unit length*

CEN/TR 10261, *Iron and steel — European standards for the determination of chemical composition*

EN 10266, *Steel tubes, fittings and structural hollow sections — Symbols and definitions of terms for use in product standards*

EN ISO 148-1:2016, *Metallic materials — Charpy pendulum impact test — Part 1: Test method (ISO 148-1:2016)*

EN ISO 377:2017, *Steel and steel products — Location and preparation of samples and test pieces for mechanical testing (ISO 377:2017)*

EN ISO 2566-1:1999, *Steel — Conversion of elongation values — Part 1: Carbon and low alloy steels (ISO 2566-1:1984)*

EN ISO 4885, *Ferrous materials — Heat treatments — Vocabulary (ISO 4885)*

EN ISO 5173:2010, *Destructive tests on welds in metallic materials — Bend tests (ISO 5173:2009)*

EN ISO 6892-1:2016, *Metallic materials — Tensile testing — Part 1: Method of test at room temperature (ISO 6892-1:2016)*

EN ISO 8492:2013, *Metallic materials — Tube — Flattening test (ISO 8492:2013)*

EN ISO 8493:2004, *Metallic materials — Tube — Drift-expanding test (ISO 8493:1998)*

EN ISO 10893-1:2011, *Non-destructive testing of steel tubes — Part 1: Automated electromagnetic testing of seamless and welded (except submerged arc-welded) steel tubes for the verification of hydraulic leaktightness (ISO 10893-1:2011)*

EN ISO 10893-2:2011, *Non-destructive testing of steel tubes — Part 2: Automated eddy current testing of seamless and welded (except submerged arc-welded) steel tubes for the detection of imperfections (ISO 10893-2:2011)*

EN ISO 10893-3:2011, *Non-destructive testing of steel tubes — Part 3: Automated full peripheral flux leakage testing of seamless and welded (except submerged arc-welded) ferromagnetic steel tubes for the detection of longitudinal and/or transverse imperfections (ISO 10893-3:2011)*

EN ISO 10893-6:2011, *Non-destructive testing of steel tubes — Part 6: Radiographic testing of the weld seam of welded steel tubes for the detection of imperfections (ISO 10893-6:2011)*

EN ISO 10893-7:2011, *Non-destructive testing of steel tubes — Part 7: Digital radiographic testing of the weld seam of welded steel tubes for the detection of imperfections (ISO 10893-7:2011)*

EN ISO 10893-10:2011, *Non-destructive testing of steel tubes — Part 10: Automated full peripheral ultrasonic testing of seamless and welded (except submerged arc-welded) steel tubes for the detection of longitudinal and/or transverse imperfections (ISO 10893-10:2011)*

EN ISO 10893-11:2011, *Non-destructive testing of steel tubes — Part 11: Automated ultrasonic testing of the weld seam of welded steel tubes for the detection of longitudinal and/or transverse imperfections (ISO 10893-11:2011)*

EN ISO 14174:2012, *Welding consumables — Fluxes for submerged arc welding and electroslag welding - Classification (ISO 14174:2012)*

EN ISO 14284, *Steel and iron — Sampling and preparation of samples for the determination of chemical composition (ISO 14284)*

EN ISO 17639:2013, *Destructive tests on welds in metallic materials — Macroscopic and microscopic examination of welds (ISO 17639:2003)*

ISO 11484:2009, *Steel products — Employer's qualification system for non-destructive testing (NDT) personnel*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN