

Institut luxembourgeois de la normalisation de l'accréditation, de la sécurité et qualité des produits et services

ILNAS-EN 10255:2004+A1:2007

Non-Alloy steel tubes suitable for welding and threading - Technical delivery conditions

Tubes en acier non allié soudables et filetables - Conditions techniques de livraison

Rohre aus unlegiertem Stahl mit Eignung zum Schweißen und Gewindeschneiden -Technische Lieferbedingungen

01011010010 0011010010110100101010101111

National Foreword

This European Standard EN 10255:2004+A1:2007 was adopted as Luxembourgish Standard ILNAS-EN 10255:2004+A1:2007.

Every interested party, which is member of an organization based in Luxembourg, can participate for FREE in the development of Luxembourgish (ILNAS), European (CEN, CENELEC) and International (ISO, IEC) standards:

- Participate in the design of standards
- Foresee future developments
- Participate in technical committee meetings

https://portail-qualite.public.lu/fr/normes-normalisation/participer-normalisation.html

THIS PUBLICATION IS COPYRIGHT PROTECTED

Nothing from this publication may be reproduced or utilized in any form or by any mean - electronic, mechanical, photocopying or any other data carries without prior permission!

EUROPEAN STANDARD EN 10255:2004+A1:2007 TO 10255:2004+A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2007

ICS 23.040.10

Supersedes EN 10255:2004

English Version

Non-Alloy steel tubes suitable for welding and threading - Technical delivery conditions

Tubes en acier non-allié filetables et soudables -Conditions techniques de livraison Rohre aus unlegiertem Stahl mit Eignung zum Schweißen und Gewindeschneiden - Technische Lieferbedingungen

This European Standard was approved by CEN on 27 May 2004 and includes Amendment 1 approved by CEN on on 5 March 2007.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents

		page
Forewe	ord	4
1	Scope	5
2	Normative references	5
3	Terms and definitions	6
4	Classification and designation	6
5 5.1 5.2 5.3 5.3.1 5.3.2	Information to be 🖹 obtained from 🔄 the purchaser	6 7 7
6 6.1 6.2	Manufacturing process Steelmaking process Tube manufacturing process	7
7 7.1 7.2 7.3 7.4	Delivery conditions	8 8 8
8 8.1 8.2 8.3 8.4 8.5 8.6 8.7	Requirements General Chemical composition and mechanical properties Appearance Dimensions, masses and tolerances A) Leak tightness Dangerous substances Reaction to fire	9 9 9 11
9 9.1 9.2 9.3 9.4 9.5 9.6 9.7 9.8	Inspection Type of inspection Inspection documents Tensile test Bend test Flattening test Leak tightness test Dimensional inspection Visual examination	12 12 12 13 13
10 11 12 12.1	Marking Temporary protective coating A) Evaluation of conformity General	14 14
12.2.4	Product families	14 15 15 15
1225	Deemed to satisfy' provisions and use of reference tabulated data	15

12.2.6	Sampling	15
12.3	Factory production control (FPC)	15
12.3.1	General	
	Equipment	
12.3.3	Raw materials and components	16
	Product testing and evaluation	
	Inspection	
12.3.6	Non-conforming products	16
	A (informative) Correlation between specified outside diameter, thread size, and nominal diameter	
Annex B.1	B (normative) Types of tubes with wall thickness different from medium and heavy series	
B.2	Requirements	18
B.3	Marking	18
Annex	ZA (informative) Clauses of this European Standard addressing the provisions of the EC	
	Construction Products Directive for applications covered by Mandate M/131	
ZA.1	Scope and relevant characteristics	
ZA.2	Procedure for attestation of conformity of pipes	
ZA.2.2		
ZA.3	CE marking and labelling	23

Foreword

This document (EN 10255:2004+A1:2007) has been prepared by Technical Committee ECISS/TC 29 "Steel tubes and fittings for steel tubes", the secretariat of which is held by UNI.

This document shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2007 and conflicting national standards shall be withdrawn at the latest by October 2007.

This document includes Amendment 1, approved by CEN on 2007-03-05.

This document supersedes EN 10255:2004.

The start and finish of text introduced or altered by amendment is indicated in the text by tags [A].

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 89/106/EEC.

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

This European Standard has been derived, with modifications, from ISO 65 "Carbon steel tube suitable for screwing in accordance with ISO 7/1".

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

1 Scope

This document specifies the requirements for circular non-alloy steel tubes suitable for welding and threading and provides a number of options for the finish of tube ends and coatings. This document covers tubes of specified outside diameter 10,2 mm to 165,1 mm (thread size 1/8 to 6) in two series, medium and heavy, and three types of designated thicknesses.

NOTE Tubes manufactured according to this document can be used for the conveyance of fluids as well as for other applications.

2 Normative references

The following referenced documents are indispensable for the application 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.

The requirements of this European Standard rule when they differ from those in the standards and documents referred to below:

EN 10002-1, Metallic materials - Tensile testing - Part 1: Method of test at ambient temperature

EN 10020, Definition and classification of grades of steel

EN 10021, A General technical delivery for steel products (4)

EN 10027-1, Designation systems for steel - A Part 1: Steel names A

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

EN 10204, Metallic products - Types of inspection documents

A₁) deleted text (A₁

EN 10240, Internal and/or external protective coatings for steel tubes - Specification for hot dip galvanized coatings applied in automatic plants

EN 10241, Steel threaded pipe fittings

EN 10242, Threaded pipe fittings in malleable cast iron

EN 10246-1, Non destructive testing of steel tubes - Part 1: Automatic electromagnetic testing of seamless and welded (except submerged arc welded) ferromagnetic steel tubes for verification of hydraulic leak-tightness

EN 10226-1 Pipe threads where pressure-tight joints are made on the threads - Part 1: Taper external threads and parallel internal threads - Dimensions, tolerances and designation

⚠ EN 10226-2 ﴿ Pipe threads where pressure-tight joints are made on the threads - Part 2: Taper external threads and taper internal threads - Dimensions, tolerances and designation

EN 10266:2003, Steel tubes, fittings and structural hollow sections - Symbols and definitions of terms for use in product standards

EN ISO 1461, Hot dip galvanized coatings on fabricated iron and steel articles - Specifications and test methods (ISO 1461:1999)