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IRISH STANDARD

**I.S. EN 10300:2005**

ICS 23.040.99  
25.220.60  
75.180.10

**STEEL TUBES AND FITTINGS FOR ONSHORE  
AND OFFSHORE PIPELINES - BITUMINOUS  
HOT APPLIED MATERIALS FOR EXTERNAL  
COATING**

National Standards  
Authority of Ireland  
Glasnevin, Dublin 9  
Ireland

Tel: +353 1 807 3800  
Fax: +353 1 807 3838  
<http://www.nsai.ie>

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<http://www.standards.ie>

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EUROPEAN STANDARD

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English Version

## Steel tubes and fittings for onshore and offshore pipelines - Bituminous hot applied materials for external coating

Tubes en acier et raccords pour canalisations enterrées et  
immergées - Revêtements externes au moyen de  
matériaux hydrocarbonés

Stahlrohre und -formstücke für erd- und wasserlegte  
Rohrleitungen - Werksumhüllungen aus heiß  
aufgebrachtem Bitumen

This European Standard was approved by CEN on 25 March 2005.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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

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

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## **Foreword**

This document (EN 10300:2005) 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 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of an identical text or by endorsement, at the latest by May 2006, and conflicting national standards shall be withdrawn at the latest by May 2006.

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

## EN 10300:2005 (E)

### 1 Scope

This European Standard specifies requirements for the application of factory applied external bitumen based hot applied coatings for the corrosion protection of steel tubes and fittings for onshore and offshore pipelines.

This specification covers the use of bitumen based enamel when the design temperature of the pipeline is within the following limits:

- oxidized bitumen – 15 °C to + 75 °C;
- modified bitumen – 30 °C to + 90 °C.

The coatings described in this European Standard can be applied to longitudinally or spirally welded tubes or to seamless tubes and fittings used for the construction of pipelines for the conveyance of liquids or gases.

NOTE Tubes coated with bitumen based enamel may be further protected by means of cathodic protection.

### 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.

EN 1426, *Bitumen and bituminous binders - Determination of needle penetration*

EN 1427, *Bitumen and bituminous binders - Determination of softening point - Ring and ball method*

EN 1849-1, *Flexible sheets for waterproofing - Determination of thickness and mass per unit area - Part 1: Bitumen sheets for roof waterproofing*

EN 12311-1, *Flexible sheets for waterproofing - Part 1: Bitumen sheets for roof waterproofing - Determination of tensile properties*

EN ISO 2431, *Paints and varnishes - Determination of flow time by use of flow cups (ISO 2431:1993, including Technical Corrigendum 1:1994)*

EN ISO 2592, *Determination of flash and fire points - Cleveland open cup method (ISO 2592:2000)*

EN ISO 8501-1, *Preparation of steel substrates before application of paints and related products - Visual assessment of surface cleanliness - Part 1: Rust grades and preparation grades of uncoated steel substrates and of steel substrates after overall removal of previous coatings (ISO 8501-1:1988)*

EN ISO 13736, *Petroleum products and other liquids - Determination of flash point - Abel closed cup method (ISO 13736:1997)*

ISO 719, *Glass - Hydrolytic resistance of glass grains at 98 °C - Method of test and classification*

ISO 2591-1:1988, *Test sieving - Part 1: Methods using test sieves of woven wire cloth and perforated metal plate*

ASTM D737-96, *Test Method for Air Permeability of Textile Fabrics*

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