Irish Standard
I.S. EN 13482:2013

Rubber hoses and hose assemblies for asphalt and bitumen - Specification

I.S. EN 13482:2013

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English Version

Rubber hoses and hose assemblies for asphalt and bitumen - Specification

Tuyaux et flexibles en caoutchouc pour asphalte et bitume - Spécification

Gummischläuche und -schlauchleitungen für Asphalt und Bitumen - Spezifikation

This European Standard was approved by CEN on 7 September 2013.

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-CENELEC 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-CENELEC Management Centre has the same status as the official versions.

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Foreword

This document (EN 13482:2013) has been prepared by Technical Committee CEN/TC 218 “Rubber and plastics hoses and hose assemblies”, the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by April 2014, and conflicting national standards shall be withdrawn at the latest by April 2014.

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

This document supersedes EN 13482:2001.

In comparison with EN 13482:2001 the following fundamental changes have been made:

a) Bitumen type PmB bitumen 25 (55-55A) added in Table 2;

b) Normative references updated;

c) Informative Annex E concerning environmental aspects added.

This European Standard is one in a series of specifications for hose and hose assemblies for conveying petroleum based and associated products. It covers types of hose and hose assemblies for conveying asphalt and bitumen, which are hazardous materials at temperatures where they can flow readily.

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, 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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This European Standard specifies requirements for two types of hose and hose assembly (Type 1 and Type 2) identified by their maximum working pressures (Type 1 7 bar and Type 2 15 bar) and main use, i.e. Type 1 is for road and rail tanker use and Type 2 is for dockside use. The types are further divided into two classes related to the maximum temperature of the product to be conveyed (Class A up to 175 °C and Class B up to 200 °C). The hose constructions may be smooth bore (SB) or rough bore (RB).

NOTE These types of hose or hose assemblies are not necessarily suitable for all types of petroleum based products or coal tar, or products containing coal tar.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 14023, *Bitumen and bituminous binders - Specification framework for polymer modified bitumens*

EN ISO 4671, *Rubber and plastics hoses and hose assemblies — Methods of measurement of the dimensions of hoses and the lengths of hose assemblies (ISO 4671)*

EN ISO 7233:2008, *Rubber and plastics hoses and hose assemblies — Determination of resistance to vacuum (ISO 7233:2006)*

EN ISO 7326, *Rubber and plastics hoses — Assessment of ozone resistance under static conditions (ISO 7326)*

EN ISO 8031, *Rubber and plastics hoses and hose assemblies — Determination of electrical resistance and conductivity (ISO 8031)*

EN ISO 8330:2008, *Rubber and plastics hoses and hose assemblies – Vocabulary (ISO 8330:2007)*

EN ISO 10619-1, *Rubber and plastics hoses and tubing — Measurement of flexibility and stiffness — Part 1: Bending tests at ambient temperature (ISO 10619-1)*

ISO 37, *Rubber, vulcanized or thermoplastic — Determination of tensile stress-strain properties*

ISO 4649:2010, *Rubber, vulcanized or thermoplastic — Determination of abrasion resistance using a rotating cylindrical drum device*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN ISO 8330:2008 apply.

4 Classification

Hoses and hose assemblies shall be one of the following types:

Type 1 maximum working pressure 7 bar for road and rail tanker hose and hose assemblies;

Type 2 maximum working pressure 15 bar for dockside hose and hose assemblies.

Each type shall be available in SB or RB construction and these additional letters shall be part of the identification.