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Irish Standard  
I.S. EN 1360:2013

# Rubber and plastic hoses and hose assemblies for measured fuel dispensing systems - Specification

## I.S. EN 1360:2013

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*This document replaces:*  
EN 1360:2005

*This document is based on:* EN 1360:2013  
*Published:* 26 June, 2013

This document was published under the authority of the NSAI and comes into effect on:  
26 June, 2013

**ICS number:**

23.040.70  
75.200

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English Version

## Rubber and plastic hoses and hose assemblies for measured fuel dispensing systems - Specification

Tuyaux et flexibles en caoutchouc et en plastique pour distribution mesurée de carburant - Spécifications

Zapfstellenschläuche und -schlauchleitungen aus Gummi und Kunststoff - Anforderungen

This European Standard was approved by CEN on 25 April 2013.

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## Foreword

This document (EN 1360:2013) 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of an identical text or by endorsement, at the latest by December 2013, and conflicting national standards shall be withdrawn at the latest by December 2013.

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 1360:2005.

Compared with EN 1360:2005, the following fundamental changes were made:

- a) In Table 1 hoses with nominal bores of 35 and 50 have been included;
- b) The normative references have been updated.

**WARNING** – Persons using this European Standard should be familiar with normal laboratory practice. This standard does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user to establish appropriate safety and health practices and to ensure compliance with any national regulatory conditions.

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

## 1 Scope

This European Standard specifies minimum requirements and test methods for verification for three types of hoses in two grades and two classes of hose assemblies used for measured fuel dispensing, including oxygenated fuels (up to a maximum of 15 % oxygenated compounds).

The assemblies are intended for use at ambient temperatures between  $-30\text{ °C}$  and  $+55\text{ °C}$  for normal temperature class and  $-40\text{ °C}$  and  $+55\text{ °C}$  for low temperature class at a working pressure  $\leq 16\text{ bar}^1$ ).

As part of the certification of a new dispenser, testing of fuel samples in accordance with EN 228 and EN 590 should be carried out at least eight weeks after the first use of the equipment to avoid unrepresentative sulphur content results.

## 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 26801, *Rubber or plastics hoses — Determination of volumetric expansion (ISO 6801)*

EN ISO 1307, *Rubber and plastics hoses — Hose sizes, minimum and maximum inside diameters and tolerances on cut-to-length hoses (ISO 1307)*

EN ISO 1402, *Rubber and plastics hoses and hose assemblies — Hydrostatic testing (ISO 1402)*

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

EN ISO 8031:2009, *Rubber and plastics hoses and hose assemblies — Determination of electrical resistance and conductivity (ISO 8031:2009)*

EN ISO 8033, *Rubber and plastics hose — Determination of adhesion between components (ISO 8033)*

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

EN ISO 10619-1, *Rubber or 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 188, *Rubber, vulcanized or thermoplastic — Accelerated ageing and heat-resistance tests*

ISO 554, *Standard atmospheres for conditioning and/or testing — Specifications*

ISO 1817, *Rubber, vulcanized or thermoplastic — Determination of the effect of liquids*

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.

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1) 1 bar = 0,1 MPa

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