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Standards

Irish Standard
I.S. EN ISO 1402:2009

Rubber and plastics hoses and hose assemblies - Hydrostatic testing (ISO 1402:2009)

I.S. EN ISO 1402:2009

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Rubber and plastics hoses and hose assemblies - Hydrostatic testing (ISO 1402:2009)

Tuyaux et flexibles en caoutchouc et en plastique - Essais hydrostatiques (ISO 1402:2009)

Gummi- und Kunststoffschläuche und -schlauchleitungen - Hydrostatische Prüfung (ISO 1402:2009)

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**Rubber and plastics hoses and hose
assemblies — Hydrostatic testing**

*Tuyaux et flexibles en caoutchouc et en plastique — Essais
hydrostatiques*



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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

ISO 1402 was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*, Subcommittee SC 1, *Hoses (rubber and plastics)*.

This fourth edition cancels and replaces the third edition (ISO 1402:1994), which has been technically revised.

Rubber and plastics hoses and hose assemblies — Hydrostatic testing

1 Scope

This International Standard specifies methods for the hydrostatic testing of rubber and plastics hoses and hose assemblies, including methods for the determination of dimensional stability.

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.

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

ISO 7751, *Rubber and plastics hoses and hose assemblies — Ratios of proof and burst pressure to design working pressure*

ISO 8330, *Rubber and plastics hoses and hose assemblies — Vocabulary*

ISO 23529, *Rubber — General procedures for preparing and conditioning test pieces for physical test methods*

3 Terms and definitions

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

4 General

Unless otherwise specified, all tests shall be carried out at standard temperature (see ISO 23529).

5 Apparatus

5.1 Pressure source, capable of applying pressure at the rate specified in 7.2.2, up to the required test pressure.

5.2 Calibrated pressure gauge or pressure transducer with digital readout, chosen for each test so that the test pressure is between 15 % and 85 % of the full-scale reading.

In the interest of accuracy, calibrated pressure gauges or pressure transducers with digital readouts shall be checked at frequent intervals and the fitting of restrictors is recommended to minimize shock damage.

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