



BSI Standards Publication

Rubber and plastics inlet hoses and hose assemblies for washing-machines and dishwashers — Specification

National foreword

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Rubber and plastics inlet hoses and hose assemblies for washing- machines and dishwashers — Specification

*Tuyaux et flexibles en caoutchouc et en plastique pour l'alimentation
des machines à laver et lave-vaisselle — Spécifications*



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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

The committee responsible for this document is ISO/TC 45, *Rubber and rubber products*, Subcommittee SC 1, *Rubber and plastics hoses and hose assemblies*.

This fourth edition cancels and replaces the third edition (ISO 6804:2009), which has been technically revised with the following main changes:

- [Clause 2](#) has been updated: ISO 1746 has been deleted and replaced by ISO 10619-1;
- [Clause 8](#) has been extended to cover hydrostatic proof pressure tests and burst testing. A new table ([Table 2](#)) has been added to specify maximum working pressures, proof pressures and minimum burst pressures for each type. All subclauses have been renumbered;
- [8.5](#) (old 8.3) and [8.6](#) (old 8.4) have been extended with one line specifying the specific test pressures for the different hose types after kinking and ageing tests;
- [Clause 11](#) a), b), c), e) and example have been amended;
- [Annex A](#) and [Annex B](#) have been amended to include hydrostatic pressure proof test and burst testing. The term “hose assembly” has been added to the description of routine tests. [Table B.1](#) (column production acceptance test) has been filled in to specify which tests are recommended per batch (the previous edition specified N.A. to all the tests);
- [Table C.2](#) has been extended to show hydrostatic proof pressure test and burst test results.

Rubber and plastics inlet hoses and hose assemblies for washing-machines and dishwashers — Specification

1 Scope

This document specifies the requirements for three types of rubber or plastics inlet hoses and hose assemblies for washing-machines and dishwashers connected to the domestic water supply at a pressure not exceeding 1 MPa (10 bar).

It is applicable to the following types of hose:

- type 1: rubber hoses for unheated water supply (maximum temperature 70 °C);
- type 2: rubber hoses for heated water supply (maximum temperature 90 °C);
- type 3: plastics hoses for unheated water supply (maximum temperature 60 °C).

There may be national requirements for hose fittings and hoses conveying drinking water which must be complied with.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 188, *Rubber, vulcanized or thermoplastic — Accelerated ageing and heat resistance tests*

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

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

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

ISO 4892 (all parts), *Plastics — Methods of exposure to laboratory light sources*

ISO 7326:2006, *Rubber and plastics hoses — Assessment of ozone resistance under static conditions*

ISO 8033, *Rubber and plastics hoses — Determination of adhesion between components*

ISO 8331, *Rubber and plastics hoses and hose assemblies — Guidelines for selection, storage, use and maintenance*

ISO 10619-1:2011, *Rubber and plastics hoses and tubing — Measurement of flexibility and stiffness — Part 1: Bending tests at ambient temperature*

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.