

Specification for

Rubber coolant hoses and tubing for use on private cars and light commercial vehicles

[ISO title: Rubber — Coolant hoses and tubing for use on private cars and light commercial vehicles — Specification]

UDC [678.44:678.033]:621.643.33:678-462:621.43:629.1-46:629.1-474:620.1

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Rubber Standards Committee (RUM/-) to Technical Committee RUM/9, upon which the following bodies were represented:

- Association of Metropolitan Authorities
- British Coal Corporation
- British Compressed Gases Association
- British Gas plc
- British Railways Board
- British Rubber Manufacturers' Association
- Chief and Assistant Chief Fire Officers' Association
- Fire Extinguishing Trades Association
- Home Office
- Institution of Fire Engineers
- Institution of Production Engineers
- Liquefied Petroleum Gas Industry Technical Association (UK)
- London Fire and Civil Defence Authority
- London Regional Transport
- Malaysian Rubber Producers' Research Association
- Ministry of Defence
- Society of Motor Manufacturers and Traders Limited

This British Standard, having been prepared under the direction of the Rubber Standards Committee, was published under the authority of the Board of BSI and comes into effect on 30 November 1988

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The following BSI references relate to the work on this standard:
Committee reference RUM/9
Draft for comment 86/54537 DC

ISBN 0 580 16935 9

Amendments issued since publication

Amd. No.	Date of issue	Comments

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National foreword

This British Standard has been prepared under the direction of the Rubber Standards Committee. It is identical with ISO 4081:1987 “*Rubber — Coolant hoses and tubing for use on private cars and light commercial vehicles — Specification*”, published by the International Organization for Standardization (ISO).

Terminology and conventions. The text of the International Standard has been approved as suitable for publication as a British Standard without deviation. Some terminology and certain conventions are not identical with those used in British Standards; attention is drawn especially to the following.

Apart from in line 6 of clause 1 and line 3 of 5.10, the comma has been used as a decimal marker. In British Standards it is current practice to use a full point on the baseline as the decimal marker.

Wherever the words “International Standard” appear, referring to this standard, they should be read as “British Standard”.

Cross-references

International Standard	Corresponding British Standard
ISO 37:1977	BS 903 <i>Methods of testing vulcanized rubber</i> Part A2:1971 <i>Determination of tensile stress-strain properties</i> (Technically equivalent)
ISO 48:1979	Part A26:1969 <i>Determination of hardness</i> (Technically equivalent)
ISO 188:1982	Part A19:1986 <i>Heat resistance and accelerated ageing tests</i> (Identical)
ISO 471:1983	Part A35:1985 <i>Temperatures, humidities and times for conditioning and testing of test pieces</i> (Identical)
ISO 815:1972	Part A6:1969 <i>Determination of compression set after constant strain</i> (Technically equivalent)
ISO 1307:1983	BS 6597:1985 <i>Specification for rubber and plastics hoses: internal diameters and tolerances and tolerances on length</i> (Identical)
ISO 1402:1984	BS 5173 <i>Methods of test for rubber and plastics hoses and hose assemblies</i> Section 102.1:1985 <i>Hydrostatic tests</i> (Identical)
ISO 1653:1975	BS 903 <i>Methods of testing vulcanized rubber</i> Part A39:1980 <i>Determination of compression set under constant deflection at low temperatures</i> (Identical)
ISO 1746:1983	BS 5173 <i>Methods of test for rubber and plastics hoses and hose assemblies</i> Section 103.5:1985 <i>Bending tests</i> (Identical)
ISO 1817:1985	BS 903 <i>Methods of testing vulcanized rubber</i> Part A16:1987 <i>Determination of the effect of liquids</i> (Identical)

International Standard	Corresponding British Standard
	BS 5173 <i>Methods of test for rubber and plastics hoses and hose assemblies</i>
ISO 7233:1983	Section 102.9:1985 <i>Determination of resistance to vacuum</i> (Identical)
ISO 7326:1984	Section 106.3:1986 <i>Determination of ozone resistance</i> (Identical)
ISO 8033:1985	Section 103.1:1986 <i>Determination of adhesion between components</i> (Identical)

The Technical Committee has reviewed the provisions of ISO 1176 and SAE J20e, to which reference is made in the text, and has decided that they are acceptable for use in conjunction with this standard. SAE J20e is published by the Society of Automotive Engineers and is available from the following address.

Society of Automotive Engineers
3001 West Big Beaver
Suite 602
Troy
Michigan 48084-9947
USA.

Textual error. When adopting the text of the International Standard, the textual error given below was discovered. It has been marked in the text and has been reported to ISO in a proposal to amend the text of the International Standard.

In **5.12** “the maximum coefficient of deformation (T/D) shall not exceed 0.7” should be read as “the ratio T/D shall not be less than 0.7”.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, pages 1 to 6, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.