

Method for

Physical testing of rubber —

**Part A4: Determination of compression
stress-strain properties**

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Rubber Standards Policy Committee (RUM/-) to Technical Committee RUM/36, upon which the following bodies were represented:

- British Railways Board
- British Rubber Manufacturer’s Association
- ERA Technology Ltd.
- GAMBICA (BEAMA Ltd.)
- Institution of Mechanical Engineers
- Institution of Water Engineers and Scientists
- Malaysian Rubber Producers’ Research Association
- Ministry of Defence
- National College of Rubber Technology
- Rubber and Plastics Research Association of Great Britain
- SATRA Footwear Technology Centre

This British Standard, having been prepared under the direction of the Rubber Standards Policy Committee, was published under the authority of the Board of BSI and comes into effect on 27 July 1990

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The following BSI references relate to the work on this standard:
Committee reference RUM/36
Draft for comment 84/44630 DC

ISBN 0 580 18807 8

Amendments issued since publication

Amd. No.	Date	Comments
6741	September 1991	Indicated by a sideline in the margin

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National foreword

This Part of BS 903, which has been prepared under the direction of the Rubber Standards Policy Committee, is identical with ISO 7743:1989 “*Rubber, vulcanized or thermoplastic — Determination of compression stress-strain properties*” including Technical Corrigendum No. 1, published by the International Organization for Standardization (ISO).

Cross-references

International Standard	Corresponding British Standard
	BS 903 <i>Methods of testing vulcanized rubber</i>
ISO 471:1983	Part A35:1985 <i>Temperatures, humidities and times for conditioning and testing of test pieces</i> (Identical)
ISO 3383:1985	Part A32:1988 <i>General directions for achieving elevated or subnormal temperatures for test purposes</i> (Identical)
ISO 4648:1978	Part A38:1978 <i>Determination of dimensions of test pieces and products for test purposes</i> (Identical)
ISO 4661-1:1986	Part A36:1988 <i>Preparation of samples and test pieces</i> (Identical)
ISO 5893:1985	BS 5214 <i>Specification for testing machines for rubbers and plastics</i> Part 1:1975 <i>Constant rate of traverse machines</i> (Technically equivalent)

The Technical Committee has reviewed the provisions of ISO 468 and ISO 1826, and has decided that they are acceptable for use in conjunction with this standard. A related British Standard to ISO 468 is BS 1134 “*Assessment of surface texture*” Part 1:1988 “*Methods and instrumentation*” and Part 2:1972 “*General information and guidance*”. A related British Standard to ISO 1826 is BS 903 “*Methods of testing vulcanized rubber*” Part A19:1986 “*Heat resistance and accelerated ageing tests*”.

Additional information. In the UK, the “standard temperature” (see clauses 9 and 10) is 23 ± 2 °C.

NOTE The “standard temperature” is commonly referred to as the “standard laboratory temperature”.

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 and ii, 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.