BS ISO 3302-1:2014

BSI Standards Publication

Rubber — Tolerances for products

Part 1: Dimensional tolerances

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National foreword

This British Standard is the UK implementation of ISO 3302-1:2014. It supersedes BS 3734-1:1997 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PRI/73, Industrial rubber products.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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ISBN 978 0 580 81957 5

ICS 83.140.01

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 July 2014.

Amendments issued since publication

Date	Text affected

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INTERNATIONAL STANDARD

ISO 3302-1

Second edition
2014-07-15

Rubber — Tolerances for products —

Part 1: Dimensional tolerances

Caoutchouc — Tolérances pour produits —

Partie 1: Tolérances dimensionnelles

Reference number
ISO 3302-1:2014(E)

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Published in Switzerland

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Foreword

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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 WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 45, *Rubber and rubber products*, Subcommittee SC 4, *Products (other than hoses)*.

This second edition cancels and replaces the first edition (ISO 3302-1:1996), which has been technically revised to incorporate the Amendment ISO 3302-2:1996/Amd.1:2001.

ISO 3302 consists of the following parts, under the general title *Rubber — Tolerances for products*:

— *Part 1: Dimensional tolerances*

— *Part 2: Geometrical tolerances*

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Introduction

Rubber products are subject to changes in their dimensions after processing and vulcanization. This can be due to a variety of factors, such as mould shrinkage or relaxation of die swell.

These changes should be determined and allowed for when designing such items as moulds and dies used in the manufacture of a given product.

The closer tolerance classes outlined in this specification are not to be demanded unless required by the final application and are to be restricted to those dimensions deemed to be critical. The greater the degree of accuracy demanded, the closer the control to be be exercised during manufacture, and hence the higher the costs.

When particular physical properties are required in the product, it might not always be possible to provide them in a mix which is capable of fabrication to close tolerances. lt is advisable, in these circumstances, that consultation should take place between the interested parties. In general, softer vulcanizates (i.e. those of hardness below 50 IRHD - see ISO 48) need greater tolerances than harder ones.

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