

INTERNATIONAL STANDARD

**ISO
3302**

Second edition
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Rubber — Dimensional tolerances for use with products

Caoutchouc — Tolérances dimensionnelles à utiliser pour les produits

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Foreword

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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.

International Standard ISO 3302 was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*.

This second edition cancels and replaces the first edition (ISO 3302:1976), of which it constitutes a technical revision including, in particular, the addition of a new clause (clause 7) dealing with calendered sheet.

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Introduction

Rubber products are subject to changes in their dimensions after processing and vulcanization. This may 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 should not be demanded unless required by the final application and should be restricted to those dimensions deemed to be critical. The greater the degree of accuracy demanded, the closer the control which must be exercised during manufacture, and hence the higher the costs.

When particular physical properties are required in the product, it may not always be possible to provide them in a mix which is capable of fabrication to close tolerances. It 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.

