

INTERNATIONAL
STANDARD

ISO
6907

Second edition
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**Rubber footwear — Vulcanized resin
rubber and vulcanized high-hardness
rubber soling materials — Specification**

*Articles chaussants en caoutchouc — Matériaux de semelles en
caoutchouc vulcanisé aux résines et caoutchoucs vulcanisés de dureté
élevée — Spécifications*



Reference number
ISO 6907:1994(E)

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.

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 6907 was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*.

This second edition cancels and replaces the first edition (ISO 6907:1984), which has been technically revised.

Annex A forms an integral part of this International Standard.

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Rubber footwear — Vulcanized resin rubber and vulcanized high-hardness rubber soling materials — Specification

1 Scope

This International Standard specifies requirements for two grades of resin rubber and high-hardness rubber soling materials, for soling without a heavy pattern, for use on footwear, as follows:

- grade 1: men's, boys' and girls' footwear;
- grade 2: women's footwear; footwear for light use, such as indoor footwear, including slippers.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most re-

cent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 37:1994, *Rubber, vulcanized or thermoplastic — Determination of tensile stress-strain properties.*

ISO 48:1994, *Rubber, vulcanized or thermoplastic — Determination of hardness (hardness between 10 IRHD and 100 IRHD).*

ISO 188:1982, *Rubber, vulcanized — Accelerated ageing or heat-resistance tests.*

ISO 2781:1988, *Rubber, vulcanized — Determination of density.*

3 Requirements

When tested by the methods of test indicated, the materials shall comply with the requirements given in table 1.

Table 1 — Requirements

Property	Unit	Grade 1	Grade 2	Method of test
Density, max.	Mg/m ³	1,35	1,45	ISO 2781
Hardness, min.	IRHD	88	93	ISO 48
Tensile strength, in both directions, min.	MPa	7,5	6,5	ISO 37
Elongation at break, in both directions, min.	%	200	200	ISO 37
Elongation at break, after ageing for 168 h at 70 °C ± 1 °C, min.	%	145	120	ISO 37 and ISO 188
Cut growth 6 mm in both directions at - 5 °C ± 2 °C, min.	kilocycles	100	50	See annex A