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Moulded plastics footwear — Lined or unlined polyurethane industrial boots with general-purpose resistance to animal fats and vegetable oils — Specification

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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.

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International Standard ISO 6910 was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*.

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Moulded plastics footwear — Lined or unlined polyurethane industrial boots with general-purpose resistance to animal fats and vegetable oils — Specification

1 Scope

This International Standard specifies requirements for lined or unlined moulded polyurethane industrial boots having resistance to animal fats and vegetable oils consistent with general-purpose industrial usage.

NOTE 1 Where resistance to specific liquids is required, the advice and recommendations of the footwear manufacturer should be sought.

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

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ISO 48:1979, *Vulcanized rubbers — Determination of hardness (Hardness between 30 and 85 IRHD).*

ISO 471:1983, *Rubber — Standard temperatures, humidities and times for the conditioning and testing of test pieces.*

ISO 5423:1992[1], *Moulded plastics footwear — Lined or unlined polyurethane boots for general industrial use — Specification.*

3 Requirements

3.1 General

Boots shall comply with the requirements of ISO 5423 except for marking.

3.2 Resistance to animal fats and vegetable oils (as determined by oleic acid)

3.2.1 Preparation of test pieces

3.2.1.1 Soling

Two clean test pieces, nominally 25 mm wide by 150 mm long, shall be taken from the soling and reduced to an overall thickness of 7 mm ± 0,2 mm, by cutting and very light buffing on both sides, removing any sole pattern.

3.2.1.2 Upper

Two clean test pieces, 64 mm ± 2 mm wide by 64 mm ± 2 mm long, shall be taken from the upper part of the boot. The lining shall be removed from the test pieces by splitting it off using a leather-splitting machine, or by buffing.

3.2.2 Procedure

3.2.2.1 Determine the mass of each test piece, both soling and upper, and determine the hardness using the microhardness method for the upper and the normal test method for the soling, as specified in ISO 48.

1) To be published.

3.2.2.2 Immerse the test pieces, both soling and upper, in oleic acid for a period of 120 h ± 2 h at a standard temperature (see ISO 471). Wipe the test pieces dry with a dry cloth or tissue. Proceed with subsequent tests within 2 h.

3.2.2.3 Determine the mass and hardness of each test piece, both soling and upper, after immersion, as described in 3.2.2.1.

3.2.2.4 For soling test pieces, test for resistance to cut growth by the method specified in annex C of ISO 5423:1992 at a temperature of − 5 °C ± 2 °C. The cut shall be made after the immersion and drying described in 3.2.2.2.

3.2.2.5 For upper test pieces, test for resistance to flexing by the method specified in annex B of ISO 5423:1992 at a temperature of − 5 °C ± 2 °C.

3.2.3 Performance requirements

3.2.3.1 All test pieces

3.2.3.1.1 The change in mass of the test piece, as determined in 3.2.2.1 and 3.2.2.3, shall not exceed 2 %.

3.2.3.1.2 The change in hardness of the test piece, as determined in 3.2.2.1 and 3.2.2.3, shall not exceed 10 IRHD.

3.2.3.2 Soling test pieces

The minimum number of flex cycles to achieve not more than 6 mm cut growth (8 mm crack), as determined in 3.2.2.4, shall be 150 000 cycles.

3.2.3.3 Upper test pieces

No cracks shall have formed after 150 000 cycles, as determined in 3.2.2.5.

4 Marking

Each boot shall be indelibly and legibly marked with the following particulars:

a) the size;

b) the manufacturer's or supplier's identification;

c) the reference number of this International Standard.

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