INTERNATIONAL STANDARD

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Moulded plastics footwear — Lined or unlined poly(vinyl chloride) industrial boots with general-purpose resistance to animal fats and iTeh Svegetable oils prSpecification

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Reference number ISO 6112:1992(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 EVIEW bodies casting a vote.

International Standard ISO 6112 was prepared by Technical Committee i) ISO/TC 45, Rubber and rubber products.

This second edition cancels://sandard.replaces.alothe.ndfirstsist.edition.5-fe36-41b5-8dd6-(ISO 6112:1982), of which it constitutes a technical revision/so-6112-1992

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International Organization for Standardization

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Moulded plastics footwear — Lined or unlined poly(vinyl chloride) 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 poly(vinyl chloride) (PVC) industrial boots, having resistance to animal fats and vegetable oils consistent with generalpurpose industrial usage.

3 Requirements

3.1 General

Boots shall comply with the requirements of ISO 4643 except for marking.

> ISO 6112:1992 https://standards.iteh.ai/catalog/standards/sist/c2a164c5-fe36-41b5-8dd6-99a0fb3162a9/iso-6112-1992

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.

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 4643:1992¹, Moulded plastics footwear — Lined or unlined poly(vinyl chloride) boots for general industrial use — Specification.

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 \pm 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 \pm 2 mm wide by 64 mm \pm 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. Immerse the test pieces, both soling and upper, in oleic acid for a period of 120 h \pm 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 after immersion, both soling and upper, using the method specified 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 4643:1992 at a temperature of -5 °C \pm 2 °C. The cut shall be inserted after the immersion and drying specified 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 4643:1992 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 c) the reference number of this International Standetermined in 3.2.2.1 and 3.2.2.3 shall not exceed DARDARD REVIEW 2 %.

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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;

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