

INTERNATIONAL STANDARD

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

*Articles chaussants moulés en plastique — Bottes industrielles doublées
ou non doublées en polyuréthane résistant aux corps gras d'origines
animale et végétale d'usage général — Spécifications*



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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.

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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.

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 5423:1992¹⁾, *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 $7 \text{ mm} \pm 0,2 \text{ mm}$, by cutting and very light buffing on both sides, removing any sole pattern.

3.2.1.2 Upper

Two clean test pieces, $64 \text{ mm} \pm 2 \text{ mm}$ wide by $64 \text{ mm} \pm 2 \text{ mm}$ 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.