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Conveyor belts — Characteristics of covers — Classification

*Courroies transporteuses — Caractéristiques des revêtements —
Classification*



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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 10247 was prepared by Technical Committee ISO/TC 41, *Pulleys and belts (including veebelts)*.

Annex A of this International Standard is for information only.

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Conveyor belts — Characteristics of covers — Classification

1 Scope

This International Standard establishes the classification of covers for general purpose conveyor belts with textile or metal carcasses, for the purposes of giving general guidance for applications. This classification specifies the essential combinations of principal characteristics of belt covers and states the corresponding methods of determination.

NOTE 1 It does not, however, infer any systematic relationship between the test results and the performance of the belt when in service.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 10247. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 10247 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 37:—¹⁾, *Rubber, vulcanized or thermoplastic — Determination of tensile stress-strain properties.*

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

ISO 4649:1985, *Rubber — Determination of abrasion resistance using a rotating cylindrical drum device.*

3 Definitions

For the purposes of this International Standard, the following definitions apply.

3.1 category H (severe cut and gouge service): Covers having the characteristics required for con-

veyor belts assigned to the conveyance of sharp and abrasive materials causing severe wear to the belt, such as metallic ores (as mined), limestone (as quarried), granite (as quarried), quartz, blast-furnace clinker and slag, crushed metallic ores, sandstone (as quarried), stone chippings, slate, coke (cold), broken glass and gravel.

3.2 category D (severe abrasion service): Covers having the characteristics required for conveyor belts assigned to the conveyance of very abrasive materials defined by experience in each case.

3.3 category L (moderate service): Covers having the characteristics required for conveyor belts assigned to the conveyance of: moderately abrasive materials such as rubble, sand (sharp), superphosphate (lump and powder), bone, coal (surface), ashes, unslaked lime and cement (from oven); slightly abrasive materials, non-abrasive and dry materials such as sand (smooth), cement (ground), clay, slaked lime, charcoal, grain, vegetables, fruit, flour, dry powder (inert), wood chips and pulp (dry).

NOTE 2 The above description of types of service conditions is not exhaustive, but serves as an illustration of the variety and types of conveyed materials for which each category of cover is suited.

NOTE 3 Bulk materials are described by the classification and symbolization given in ISO 3435, which gives an accurate description of the material to be handled

- for category H, the majority of the material will be in lump form II, of cohesion 6 and with properties of material o;
- for category D, the majority of the material will be in lump form I or II, of cohesion 4 or 5 and with properties of material o;
- for category L, the majority of the material will be in lump form I, IV, V or VI, of cohesion 3, 4 or 5 and with properties of material n to x, except for o.

1) To be published. (Revision of ISO 37:1977)