INTERNATIONAL STANDARD

ISO 8033

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Rubber and plastics hoses — Determination of adhesion between components

Tuyaux en caoutchouc et en plastique — Détermination de l'adhérence entre éléments



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Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 8033 was prepared by Technical Committee ISO/TC 45, Rubber and rubber products, Subcommittee SC 1, Hoses (rubber and plastics).

This third edition cancels and replaces the second edition (ISO 8033:1991), Clause 5, Subclause 6.3, Table 1 and Figure 8 of which have been technically revised.

Rubber and plastics hoses — Determination of adhesion between components

1 Scope

Adequate adhesion between the various components of a hose is essential if it is to perform satisfactorily in service. This International Standard specifies methods for the determination of the adhesion between lining and reinforcement, between cover and reinforcement, between reinforcement layers, between cover and outer lamination (thin layer of material outside the cover for protection) and between lining and inner lamination (thin layer of material inside the lining to reduce permeation of fluid into the lining). It covers all bore sizes and the following types of hose construction:

- woven textile fabric:
- braided textile fabric;
- knitted textile fabric;
- circular-woven textile fabric;
- textile spiral;
- textile cord;
- wire braid;
- wire spiral;
- hoses containing a supporting helix.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 5893:2002, Rubber and plastics test equipment — Tensile, flexural and compression types (constant rate of traverse) — Specification

ISO 6133, Rubber and plastics — Analysis of multi-peak traces obtained in determinations of tear strength and adhesion strength

ISO 23529, Rubber — General procedures for preparing and conditioning test pieces for physical test methods

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