INTERNATIONAL STANDARD

Second edition 2007-06-01

Rubber- or plastics-coated fabrics — Determination of fogging characteristics of trim materials in the interior of automobiles

Textiles revêtus de caoutchouc ou de plastique — Détermination des caractéristiques d'embuage des matériaux de garnissage utilisés dans l'habitacle automobile



Reference number ISO 6452:2007(E)

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Foreword

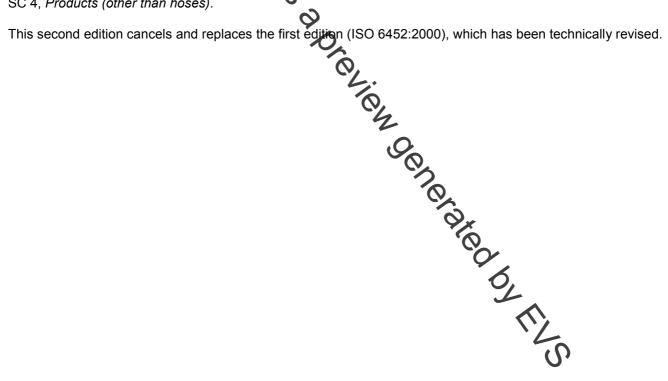
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ISO 6452 was prepared by Technical Committee ISO/TC 45, Rubber and rubber products, Subcommittee SC 4, Products (other than hoses).



Rubber- or plastics-coated fabrics — Determination of fogging characteristics of trim materials in the interior of automobiles

WARNING — Persons using this International Standard should be familiar with normal laboratory practice. This standard does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user to establish appropriate safety and health practices and to ensure compliance with any national regulatory conditions.

1 Scope

This International Standard spectries a test method which is intended to determine the fogging characteristics of rubber- or plastics-coated fabrics that are used as trim materials in the interior of motor vehicles.

The method may also be applicable to fluid, pasty, powdered or solid raw materials which are the basis for such trim materials or from which the materials are manufactured. The method may also be applicable to other materials and finished products.

The procedure is applicable to the measurement of fog condensate on glass surfaces within the limits of the test conditions. This test will not measure or capnot measure accurately those cases in which:

— the surface tension of the condensate is low, regulting in early coalescing into a thin transparent film;

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 the condensate is present in such a large quantity that the droplets coalesce and form a heavy oily/clear film (this heavy film gives false readings).

In such cases, the gravimetric method is preferred.

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/TR 9272, Rubber and rubber products — Determination of precision for test method standards

3 Principle

A test piece is heated in a glass beaker. Any volatile constituents are condensed on either a cooled glass plate or a disc of cooled aluminium foil.

The fogging value *F* is calculated as the quotient, in percent, of the reflectometer value for the glass plate with fogging condensate and the reflectometer value of the same glass plate without fogging condensate.

The mass of the condensable constituents *G* is given by the difference between the masses of the aluminium foil disc with and without fogging.