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# **Malinger og lakker – Prøvningsmetode til evaluering af elastiske klæbemidlers vedhæftning på coatinger ved peelprøvning, peelstyrkeprøvning og forskydningsmodstandsprøvning med yderligere belastning i form af kondensationsprøvning eller kataplasmaopbevaring**

Paints and varnishes – Test method for evaluation of adhesion of elastic adhesives on coatings by peel test, peel strength test and tensile lap-shear strength test with additional stress by condensation test or cataplasm storage (ISO 22970:2019)

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December 2020

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English Version

Paints and varnishes - Test method for evaluation of adhesion of elastic adhesives on coatings by peel test, peel strength test and tensile lap-shear strength test with additional stress by condensation test or cataplasma storage (ISO 22970:2019)

Peintures et vernis - Évaluation de l'adhérence des adhésifs élastiques sur les produits de peinture en examinant l'adhérence, la résistance au pelage et la résistance à la traction et le cisaillement en combinaison avec l'exposition à l'eau de condensation ou au cataplasme (ISO 22970:2019)

Beschichtungsstoffe - Prüfverfahren zur Beurteilung der Haftfestigkeit von elastischen Klebstoffen auf Beschichtungen durch Prüfen der Schälhaftung, Schälfestigkeit und Zugscherfestigkeit mit zusätzlicher Beanspruchung durch Kondenswasserprüfung oder Kataplasmalagerung (ISO 22970:2019)

This European Standard was approved by CEN on 30 November 2020.

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## European foreword

The text of [ISO 22970:2019](#) has been prepared by Technical Committee ISO/TC 35 "Paints and varnishes" of the International Organization for Standardization (ISO) and has been taken over as [EN ISO 22970:2020](#) by Technical Committee CEN/TC 139 "Paints and varnishes" the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2021, and conflicting national standards shall be withdrawn at the latest by June 2021.

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

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First edition  
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## **Paints and varnishes — Test method for evaluation of adhesion of elastic adhesives on coatings by peel test, peel strength test and tensile lap- shear strength test with additional stress by condensation test or cataplasm storage**

*Peintures et vernis — Évaluation de l'adhérence des adhésifs élastiques sur les produits de peinture en examinant l'adhérence, la résistance au pelage et la résistance à la traction et le cisaillement en combinaison avec l'exposition à l'eau de condensation ou au cataplasme*



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## Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

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# Paints and varnishes — Test method for evaluation of adhesion of elastic adhesives on coatings by peel test, peel strength test and tensile lap-shear strength test with additional stress by condensation test or cataplasma storage

## 1 Scope

This document specifies three methods for testing the peel adhesion, peel strength and tensile lap-shear strength in order to evaluate the adhesive bond as well as the type, location and structure of failures of elastic adhesives on coatings. These methods are used, for example, for testing the assembly with respect to the bond of panes or built-on parts, such as plastic covers, spoilers, instrument panel covers, headlights, with coatings for automobile construction. The two methods of climatic exposure of specimens described herein are the condensation test and cataplasma storage.

This document does not specify requirements for adhesives and coatings.

NOTE — The peel strength test (method B) for rigid car body construction adhesives is described in [ISO 8510-2](#). The tensile lap-shear strength test (method C) for rigid car body construction adhesives is described in [EN 1465](#). Testing of rigid car body construction adhesives is generally conducted on small joint thicknesses, i.e. <1 mm.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 3270](#), *Paints and varnishes and their raw materials — Temperatures and humidities for conditioning and testing*

[ISO 4618](#), *Paints and varnishes — Terms and definitions*

[ISO 6270-2](#), *Paints and varnishes — Determination of resistance to humidity — Part 2: Condensation (in-cabinet exposure with heated water reservoir)*

[ISO 10365](#), *Adhesives — Designation of main failure patterns*

[ISO 17872](#), *Paints and varnishes — Guidelines for the introduction of scribe marks through coatings on metallic panels for corrosion testing*

[DIN 55997](#), *Solvents for paints and varnishes — Deionized water — Requirements and methods of test*