
**Paints and varnishes — Determination
of the resistance to rubbing using a
linear abrasion tester (crockmeter)**

*Peintures et vernis — Détermination de la résistance à la rayure avec
un abrasimètre linéaire*





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Foreword

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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.

Paints and varnishes — Determination of the resistance to rubbing using a linear abrasion tester (crockmeter)

1 Scope

This document specifies a method for determining the resistance of a coating to rubbing by means of a loaded abrasive material which is linearly moved over the surface to be tested.

The method can also be applied to different material surfaces, such as plastics and metals.

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 105-F09, *Textiles — Tests for colour fastness — Part F09: Specification for cotton rubbing cloth*

ISO 845, *Cellular plastics and rubbers — Determination of apparent density*

ISO 1514, *Paints and varnishes — Standard panels for testing*

ISO 2808, *Paints and varnishes — Determination of film thickness*

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 23321, *Solvents for paints and varnishes — Demineralized water for industrial applications — Specification and test methods¹⁾*

ASTM D2240, *Standard Test Method for Rubber Property — Durometer Hardness*

FEPA-Standard 43-2²⁾, *Grains of fused aluminium oxide, silicon carbide and other abrasive materials for coated abrasives microgrits P 240 to P 2500*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4618 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at <https://www.iso.org/obp>

— IEC Electropedia: available at <http://www.electropedia.org/>

1) Under preparation. Stage at the time of publication: ISO/FDIS 23321:2019.

2) Federation of European Producers of Abrasives (FEPA). Reference source for FEPA standards: Staatliche Materialprüfungsanstalt Darmstadt, Dr. Ing. P. Hof, Grafenstraße 2, 64283 Darmstadt, Germany, Tel.: +49-6151-16 65 82, Fax: +49-6151-16 60 46, E-Mail: hof@mpa-ifw.tu-darmstadt.de.