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Oorganiska ytbeläggningar – Emalj – Bestämning av hårdhet enligt Mohs skala

Vitreous and porcelain enamels – Determination of surface scratch hardness according to the Mohs scale

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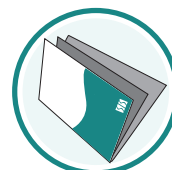
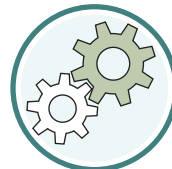
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 15771

March 2010

ICS 25.220.50

English Version

Vitreous and porcelain enamels - Determination of surface scratch hardness according to the Mohs scale

Émaux vitrifiés - Détermination de la dureté superficielle suivant l'échelle de Mohs

Emails und Emailierungen - Bestimmung der Ritzhärte nach Mohs

This European Standard was approved by CEN on 13 February 2010.

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COMITÉ EUROPÉEN DE NORMALISATION
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Foreword

This document (EN 15771:2010) has been prepared by Technical Committee CEN/TC 262 “Metallic and other inorganic coatings”, the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by September 2010, and conflicting national standards shall be withdrawn at the latest by September 2010.

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1 Scope

This European Standard specifies a method of test for determining the scratch hardness of the surface of vitreous and porcelain enamels.

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.

EN 15206, *Vitreous and porcelain enamels — Production of specimens for testing enamel on sheet steel, sheet aluminium and cast iron*

3 Terms and definitions

For the purposes of this document, the following term and definition applies.

3.1

Mohs scale

hardness scale of minerals, characterising the scratch resistance of various minerals through the ability of a harder mineral to scratch a softer mineral

4 Principle

The scratch hardness on the Mohs scale, of vitreous and porcelain enamels is determined by drawing certain minerals of defined hardness, on the Mohs scale, by hand over their surface.

5 Reference minerals

Reference minerals and their Mohs scale hardness are listed in Table 1.

Table 1 — Reference minerals and their Mohs scale hardness

Mineral	Mohs scale hardness
Talc	1
Gypsum	2
Calcite	3
Fluorspar	4
Apatite	5
Felspar	6
Quartz	7
Topaz	8
Corundum	9
Diamond	10