

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

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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 15771:2010 sisaldab Euroopa standardi FprEN 15771:2009 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 31.05.2010 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 24.03.2010.

Standard on kättesaadav Eesti standardiorganisatsioonist.

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This standard is ratified with the order of Estonian Centre for Standardisation dated 31.05.2010 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

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of an identical text or by endorsement, at the latest by September 2010, and conflicting national standards shall be withdrawn at the latest by September 2010.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