

SVENSK STANDARD

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Oorganiska ytbeläggningar – Emalj – Bestämning av flytbarhet för smält emalj (ISO 4534:2010)

Vitreous and porcelain enamels – Determination of fluidity behaviour – Fusion flow test (ISO 4534:2010)



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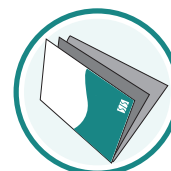
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Europastandarden EN ISO 4534:2010 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av EN ISO 4534:2010.

Denna standard ersätter SS-ISO 4534, utgåva 1.

The European Standard EN ISO 4534:2010 has the status of a Swedish Standard. This document contains the official version of EN ISO 4534:2010.

This standard supersedes the Swedish Standard SS-ISO 4534, edition 1.

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Denna standard är framtagen av kommittén för Oorganiska ytbeläggningar, SIS/TK 116.

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EUROPEAN STANDARD

EN ISO 4534

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2010

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English Version

Vitreous and porcelain enamels - Determination of fluidity behaviour - Fusion flow test (ISO 4534:2010)

Émaux vitrifiés - Détermination du comportement de fluidité
- Essai d'écoulement (ISO 4534:2010)

Emails und Emailierungen - Prüfung des Fließverhaltens -
Ablaufversuch (ISO 4534:2010)

This European Standard was approved by CEN on 14 December 2010.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN ISO 4534:2010) has been prepared by Technical Committee ISO/TC 107 “Metallic and other inorganic coatings” in collaboration with 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of an identical text or by endorsement, at the latest by June 2011, and conflicting national standards shall be withdrawn at the latest by June 2011.

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Endorsement notice

The text of ISO 4534:2010 has been approved by CEN as a EN ISO 4534:2010 without any modification.

Introduction

The fusion flow test specified in this International Standard is a comparative method which can be carried out with simplified equipment to provide data on the fluidity behaviour of molten enamel. The results from this test allow conclusions on the flow properties of the enamel to be inferred in a much simpler manner than is possible from the results of the much more expensive measurements made using the usual viscosity-measuring instruments.

The results of extensive tests¹⁾ have shown that there is a well-defined relationship between the results of the flow test and the viscosity-temperature curve, so that the flow test could also be used as an absolute method. However, more effort would be required to enable the various laboratories to obtain comparable results of similar quality than when using the method for comparative purposes.

When using this method, the reference (comparison) enamel must be similar to the enamel to be tested, as the fluidity behaviour of the various types of enamel might vary considerably from one type to another.

1) Dekker, P. Calculation of viscosity-temperature curves for porcelain enamels from the flow-button test. *Journal of the American Ceramic Society*, **48** (1965), 6, pp. 319 to 327.