

# **SLOVENSKI STANDARD**

## **SIST EN ISO 28763:2012**

**01-januar-2012**

**Nadomešča:**  
**SIST EN 14866:2006**

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**Steklasti in porcelanski emajli - Regenerativne, emajlirane in pakirane plošče za toplotne izmenjevalnike »zrak-plin« in »plin-plin« - Specifikacije (ISO 28763:2008)**

Vitreous and porcelain enamels - Regenerative, enamelled and packed panels for air-gas and gas-gas heat exchangers - Specifications (ISO 28763:2008)

Emails und Emailierungen - Regenerative, emailierte und gepackte Bleche für Luft-Gas- und Gas-Gas-Wärmeaustauscher - Anforderungen (ISO 28763:2008)

Émaux vitrifiés - Échangeurs thermiques pour réchauffeurs air-gaz et gaz-gaz à empilement de panneaux émaillés remplaçables et démontables - Specifications (ISO 28763:2008)

**Ta slovenski standard je istoveten z: EN ISO 28763:2011**

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**ICS:**

25.220.50      Emajlne prevleke      Enamels

**SIST EN ISO 28763:2012**      **en,fr,de**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN ISO 28763**

March 2011

ICS 25.220.50

Supersedes EN 14866:2005

English Version

**Vitreous and porcelain enamels - Regenerative, enamelled and  
packed panels for air-gas and gas-gas heat exchangers -  
Specifications (ISO 28763:2008)**

Émaux vitrifiés - Échangeurs thermiques pour réchauffeurs  
air-gaz et gaz-gaz à empilement de panneaux émaillés  
remplaçables et démontables - Spécifications (ISO  
28763:2008)

Emails und Emaillierungen - Regenerative, emaillierte und  
gepackte Bleche für Luft-Gas- und Gas-Gas-  
Wärmeaustauscher - Anforderungen (ISO 28763:2008)

This European Standard was approved by CEN on 3 March 2011.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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EUROPÄISCHES KOMITEE FÜR NORMUNG

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## Foreword

The text of ISO 28763:2008 has been prepared by Technical Committee ISO/TC 107 “Metallic and other inorganic coatings” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 28763:2011 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 2011, and conflicting national standards shall be withdrawn at the latest by September 2011.

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

This document supersedes EN 14866:2005.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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Endorsement notice

The text of ISO 28763:2008 has been approved by CEN as a EN ISO 28763:2011 without any modification.

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# INTERNATIONAL STANDARD

**ISO**  
**28763**

First edition  
2008-10-15

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## **Vitreous and porcelain enamels — Regenerative, enamelled and packed panels for air-gas and gas-gas heat exchangers — Specifications**

*Émaux vitrifiés — Échangeurs thermiques pour réchauffeurs air-gaz et  
gaz-gaz à empilement de panneaux émaillés remplaçables et  
démontables — Spécifications*

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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 28763 was prepared by the European Committee for Standardization (CEN) (as EN 14866) and was adopted, under a special “fast-track procedure”, by Technical Committee ISO/TC 107, *Metallic and other inorganic coatings*, in parallel with its approval by the ISO member bodies.

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# Vitreous and porcelain enamels — Regenerative, enamelled and packed panels for air-gas and gas-gas heat exchangers — Specifications

## 1 Scope

This International Standard specifies the minimum requirements and the functional characteristics of enamel coatings applied by any process, such as wet dipping, wet flow-coating, wet spraying, wet electrostatic spraying, wet electrodeposition or dry-powder electrostatic spraying, to profiled steel heat exchanger panels in regenerative heat exchangers, before and after packing in baskets.

For very severe service conditions, or to obtain extended operational life, more stringent limits may be agreed between customer and supplier.

## 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.

ISO 105-J03, *Textiles — Tests for colour fastness — Part J03 Calculation of colour differences* (including Technical Corrigendum 1:1996 and Technical Corrigendum 2:2006)

ISO 2178, *Non-magnetic coatings on magnetic substrates — Measurement of coating thickness — Magnetic method*

ISO 4534, *Vitreous and porcelain enamels — Determination of fluidity behaviour — Fusion flow test*

ISO 7991, *Glass — Determination of coefficient of mean linear thermal expansion*

ISO 8289:2001, *Vitreous and porcelain enamels — Low voltage test for detecting and locating defects*

ISO 28706-2:2008, *Vitreous and porcelain enamels — Determination of resistance to chemical corrosion — Part 2: Determination of resistance to chemical corrosion by boiling acids, boiling neutral liquids and/or their vapours*

ISO 28723, *Vitreous and porcelain enamels — Determination of the edge covering on enamelled steel plate to be used in heat exchangers*

ISO 28764, *Vitreous and porcelain enamels — Production of specimens for testing enamels on sheet steel, sheet aluminium and cast iron*

EN 10204:2004, *Metallic products — Types of inspection documents*

EN 10209:1996, *Cold rolled low carbon steel flat products for vitreous enamelling — Technical delivery conditions*