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

*Émaux vitrifiés — Production d'éprouvettes pour l'essai des émaux
sur la tôle d'acier, la tôle d'aluminium et la fonte*



This document is a preview generated by EMS



COPYRIGHT PROTECTED DOCUMENT

© ISO 2015, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Contents

	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Designation	1
4 Specimens from production articles	1
4.1 Requirements for the articles used	1
4.2 Shape and dimensional requirements	2
4.3 Preparation	2
5 Specially produced specimens	2
5.1 Shape, dimension and substrate requirements	2
5.1.1 General	2
5.1.2 Steel substrate	2
5.1.3 Cast iron substrate	2
5.1.4 Aluminium substrate	3
5.1.5 Other substrates	3
5.2 Enamelling of specimens	3
5.2.1 General	3
5.2.2 Steel enamelling	3
5.2.3 Cast iron enamelling	4
5.2.4 Aluminium enamelling	4
5.2.5 Enamelling of other substrates	4
5.3 Surfaces of enamelled specimens	4
Bibliography	5

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 107, *Metallic and other inorganic coatings*.

This second edition cancels and replaces the first edition (ISO 28764:2008), of which it constitutes a minor revision.

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

WARNING — This International Standard calls for the use of substances and/or procedures that may be injurious to health if adequate safety measures are not taken. This International Standard does not address any health hazards, safety or environmental matters associated with its use. It is the responsibility of the user of this International Standard to establish appropriate health, safety and environmentally acceptable practices and take suitable actions for any national and international regulations. Compliance with this International Standard does not of itself confer immunity from legal obligations.

1 Scope

This International Standard specifies a method for the production of specimens suitable for testing vitreous and porcelain enamel coatings.

It specifies two different specimens:

- specimens taken from production articles;
- specially produced specimens.

NOTE Only the specially produced specimens can be used when the loss in mass per unit area of the enamel coating is to be determined quantitatively, as specimens cut from enamelled articles can reduce the accuracy of the test method.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 2746, *Vitreous and porcelain enamels — High voltage test*

3 Designation

Specimens prepared in accordance with this International Standard shall have the following designation:

Specimen: ISO 28764-(substrate)

where a steel substrate is designated by A, a cast iron substrate by B and an aluminium substrate by C.

EXAMPLE The designation of a specimen prepared in accordance with this International Standard using a steel substrate is:

Specimen ISO 28764-A

4 Specimens from production articles

4.1 Requirements for the articles used

The specimens shall be taken from a production article that has been produced using the normal production parameters. Reworked articles shall not be used as a source of specimens.