PD ISO/TS 16688:2017

BSI Standards Publication

Guidelines for the selection of coating types, tests and methods of assessing the performance of coated aluminium in architectural applications

currently in preview, click buy full versi

bsi.

National foreword

This Published Document is the UK implementation of ISO/TS 16688:2017.

The UK participation in its preparation was entrusted to Technical Committee NFE/35, Light metals and their alloys.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2018
Published by BSI Standards Limited 2018

ISBN 978 0 580 90584 1

ICS 25.220.20

Compliance with a British Standard cannot confer immunity from legal obligations.

This Published Document was published under the authority of the Standards Policy and Strategy Committee on 31 January 2018.

Amendments/corrigenda issued since publication

Date	Text affected

currently in preview, click buy full version

PD ISO/TS 16688:2017

TECHNICAL SPECIFICATION

ISO/TS 16688

First edition
2017-11-30

Guidelines for the selection of coating types, tests and methods of assessing the performance of coated aluminium in architectural applications

Lignes directrices pour la sélection des types de revêtements, essais et méthodes d'évaluation des performances de l'aluminium revêtu dans les applications architecturales

currently in preview, click buy full version

Reference number
ISO/TS 16688:2017(E)

© ISO 2017

urrently in preview, click buy full versi

COPYRIGHT PROTECTED DOCUMENT

© ISO 2017 – 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

© ISO 2017 – All rights reserved

Contents

Page

Currently in preview, click buy full version

© ISO 2017 – All rights reserved

urrently in preview, click buy full versi

© ISO 2017 – All rights reserved

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 voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 79, *Light metals and their alloys*, Subcommittee SC 2, *Organic and anodic oxidation coatings on aluminium*.

currently in preview, click buy full version

© ISO 2017 – All rights reserved

urrently in preview, click buy full versi

This page deliberately left blank

TECHNICAL SPECIFICATION ISO/TS 16688:2017(E)

Guidelines for the selection of coating types, tests and methods of assessing the performance of coated aluminium in architectural applications

1 Scope

This document establishes a system to select coating types for architectural applications depending on environment. It gives guidelines for the selection of tests and methods of measuring performance in terms that are of direct interest to the building designer.

This document is applicable to organic and anodic oxidation (AAO) coatings on aluminium, including those produced from liquid and powder paints, and combined coatings of organic and anodic oxidation coatings. It is designed to be applicable to novel coatings developed in the future.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 7583, *Anodizing of aluminium and its alloys — Terms and definitions*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 7583 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— IEC Electropedia: available at http://www.electropedia.org/

— ISO Online browsing platform: available at http://www.iso.org/obp

3.1
abrasive wear
wear process of a material caused by cutting or scratching actions of hard bodies or hard particles

[SOURCE: ISO 4378-2:2017, 3.3.1.2]

3.2
adhesive wear
wear process due to adhesion and extraction of material out of the body surface

[SOURCE: ISO 4378-2:2017, 3.3.1.3]

3.3
accelerated test
test undertaken under conditions designed to speed material deterioration

[SOURCE: ISO 23936-2:2011, 3.1.1]

3.4
architectural applications
external and internal building applications for coated aluminium products where both appearance and long life are important

© ISO 2017 – All rights reserved

currently in preview, click buy full version