
**Thermal insulation for building
equipment and industrial
installations — Aluminosilicate wool
products — Specification**

*Isolation thermique pour les équipements du bâtiment et les
installations industrielles — Produits en laine d'aluminosilicate —
Spécifications*





COPYRIGHT PROTECTED DOCUMENT

© ISO 2018

All rights reserved. Unless otherwise specified, or required in the context of its implementation, 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
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols and abbreviated terms	2
4.1 Symbols	2
4.2 Abbreviated terms	2
5 Requirements	2
5.1 General.....	2
5.2 Classification.....	3
5.3 Permanent linear change.....	3
5.4 Thermal conductivity.....	3
5.5 Dimensions.....	3
5.6 Apparent density.....	4
5.7 Shot content.....	4
5.8 Tensile strength.....	4
6 Test methods	5
6.1 Sampling.....	5
6.2 Conditioning.....	5
6.3 Testing.....	5
6.3.1 Test methods and specimen requirements.....	5
6.3.2 Thermal conductivity.....	6
7 Designation code	6
8 Product conformity	6
8.1 General.....	6
8.2 Initial type testing.....	7
8.3 Factory production control.....	7
9 Marking and labelling	7
Annex A (normative) Factory production control	8
Annex B (informative) Evaluation of conformity	9
Annex C (informative) Service temperature of aluminosilicate wool, ceramic wool and mineral wools	10
Bibliography	11

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 163, *Thermal performance and energy use in the built environment*, Subcommittee SC 3, *Thermal insulation products*.

Thermal insulation for building equipment and industrial installations — Aluminosilicate wool products — Specification

1 Scope

This document specifies the classification, requirements and test methods for factory-made aluminosilicate wool products which are used for thermal insulation of industrial installations and building equipment, for non-refractory applications. The products are delivered as blanket, module, felt, board, paper, textile and other forms.

This document describes product characteristics and testing methods, marking and labelling.

This document does not specify the required level of a given property to be achieved by a product to demonstrate fitness for purpose in a particular application.

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 836, *Terminology for refractories*

ISO 8302, *Thermal insulation — Determination of steady-state thermal resistance and related properties — Guarded hot plate apparatus*

ISO 8894-1, *Refractory materials — Determination of thermal conductivity — Part 1: Hot-wire methods (cross-array and resistance thermometer)*

ISO 9229, *Thermal insulation — Vocabulary*

ISO 10635, *Refractory products — Methods of test for ceramic fibre products*

ISO 13787, *Thermal insulation products for building equipment and industrial installations — Determination of declared thermal conductivity*

ISO 29465, *Thermal insulating products for building applications — Determination of length and width*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 9229, ISO 836 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 <https://www.iso.org/obp>