

DIN EN 14306:2016-03 (E)

Thermal insulation products for building equipment and industrial installations - Factory made calcium silicate (CS) products - Specification

Contents	Page
European foreword	4
1 Scope	6
2 Normative references	6
3 Terms, definitions, symbols, units and abbreviated terms	8
3.1 Terms and definitions	8
3.1.1 Terms and definitions as given in EN ISO 9229:2007	8
3.1.2 Additional terms and definitions	8
3.2 Symbols, units and abbreviated terms	9
3.2.1 Symbols and units used in this standard	9
3.2.2 Abbreviations used in this standard	10
4 Requirements	10
4.1 General	10
4.2 For all applications	10
4.2.1 Thermal conductivity	10
4.2.2 Dimensions and tolerances	11
4.2.3 Dimensional stability	11
4.2.4 Reaction to fire of the product as placed on the market	11
4.2.5 Durability characteristics	12
4.3 For specific applications	12
4.3.1 General	12
4.3.2 Maximum service temperature	12
4.3.3 Minimum service temperature	13
4.3.4 Compressive stress or compressive strength	13
4.3.5 Trace quantities of water soluble ions and the pH-value	14
4.3.6 Water vapour diffusion resistance	14
4.3.7 Short-term water absorption by partial immersion	14
4.3.8 Release of dangerous substances	14
4.3.9 Continuous glowing combustion	14
5 Test methods	14
5.1 Sampling	14
5.2 Conditioning	15
5.3 Testing	15
5.3.1 General	15
5.3.2 Thermal conductivity	17
5.3.3 Maximum service temperature	17
5.3.4 Reaction to fire	17
6 Designation code	18
7 Assessment and Verification of the Constancy of Performance (AVCP)	18
7.1 General	18
7.2 Product Type Determination (PTD)	18
7.3 Factory Production Control (FPC)	18
8 Marking and labelling	19

Annex A (normative) Factory production control	20
Annex B (normative) Determination of minimum service temperature	23
B.1 Definitions	23
B.2 Principle	23
B.3 Apparatus	23
B.4 Test specimens	24
B.5 Procedure	24
B.6 Calculation and expression of results	25
B.7 Accuracy of measurements	26
B.8 Test report	26
Annex C (informative) Preparation of the test specimens to measure thermal conductivity	27
C.1 Preparation of the test specimens to measure thermal conductivity	27
C.2 Ageing	27
Annex D (informative) Additional properties	28
D.1 General	28
D.2 Coefficient of thermal expansion	28
D.3 Apparent and true porosity	28
D.4 Air flow resistance	28
D.5 Creep in compression	28
D.6 Permeability to gases	28
D.7 Acoustic properties	28
D.8 Bending strength	28
D.9 Apparent density	28
Annex ZA (informative) Clauses of this European Standard addressing the provisions of the EU Construction Products Regulation	30
ZA.1 Scope and relevant characteristics	30
ZA.2 Procedures for AVCP of factory made calcium silicate (CS)	32
ZA.3 CE Marking and labelling	39
Bibliography	41