



SILICA AEROGEL THERMAL INSULATION BLANKET
UNCOATED



Aerogel-based thermal insulation panel/blanket, non-inflammable, vapor breathable, with no covering layers.
Fire behavior Euroclass B/s1/0, nominal density 200 kg/m³.
Designed to building restoration and renovation, and generally for whole civil and industrial applications where highly thermal performance and low thickness of the insulation package are needed.
AEROGEL A2 is suitable for internal and external ETICs applications.



CORE FEATURES

Insulation material made of high density fiberglass and silica aerogel
High thermal performance
Vapor breathable
Compression and creep resistant
Harmful emissions free, VOC A+ class

FIELD OF APPLICATION

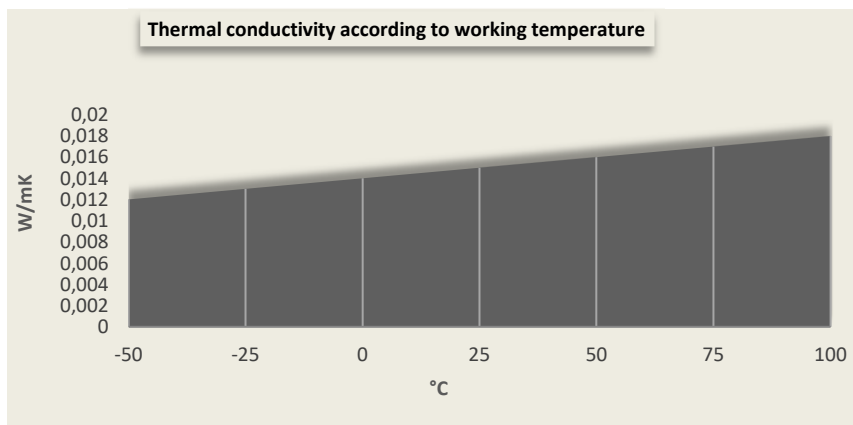


- Wall cavities
- ETICS
- Pitched roof
- Dry screed floors
- Flat roofs
- Thermal bridges

GUIDELINES

Depending on the type of application. Please refer to case studies and original documentation on ecofine.it portal.
Keep dry, protect from moisture and UV rays.
Under standard storage conditions product is unlimited storable.
Inhalation and breathing excessive amounts of product dust may cause irritation of the respiratory tract. Long-time contact with skin and eyes may cause irritation,

THERMAL PERFORMANCE



°C	W/mK
-50	0,012
-25	0,013
0	0,015
25	0,016
50	0,016
75	0,017
100	0,018

TECHNICAL DATA

FEATURE	STANDARD	U.M.	VALUE
Thermal conductivity λ_d	EN12667	W/mK	0,015
Calorific value Cp	EN10456	J/Kg.K	1030
Nominal density ρ	--	Kg./m ³	200 ± 10%
Water vapour transmission rate μ	EN12086	--	13
Water vapour permeability	EN12086	Kg./msPa	14,4x10 ⁻¹²
Airflow resistivity	EN29053	KPas/m ²	>1000
Short-term partial immersion water absorption (Wp)	EN1609	Kg./m ²	0
Long term water absorption by total immersion (Wlp)	EN12087	Kg./m ²	0
Compression behaviour ($\sigma_{10/20}$)	EN826	KPa	50
Compressive creep (1)	EN1606	%	relative deformation ϵ_{10a} <3,65
Tensile strength perpendicular to faces	EN1607	KPa	7
Tensile strength parallel to faces (2)	EN1608	KPa	perpendicular to the orientation of fibers:202 parallel:1.297
Dimensional stability	EN1604	%	width: $\Delta\epsilon_l$ <1 length: $\Delta\epsilon_b$ <1 thickness: $\Delta\epsilon_d$ <1
Fire behaviour - EUROCLASS ²⁾	EN13501-1	--	B/s1/d0
Volatile Organic Compounds (VOC)	EN16000-9	class	A+
RoHS	EN62321	--	Directive 2011/65/EU compliant

Nominal thickness (d _N)	mm	6	10	20	30	40	50	60	
Size (3)	--	r	r/p	p					
Dimension (4)	mm	a	b/c-d	c-d		d			
Thermal resistance (Rd)	EN13162	m ² K/W	0,35	0,65	1,30	1,95	2,60	3,25	3,90
Conductance	--	W/m ² K	2,53	1,52	0,76	0,51	0,38	0,30	0,25
Service temperature	--	°C	-50/+200		-30/+100				
Flexibility	--	--	YES			NO			
Airflow resistance (Sd)	EN12086	m	0,078	0,13	0,26	0,39	0,52	0,65	0,78
Dynamic stiffness ²⁾ (s')	EN29052-1	MN/m ³	--	43	--				
Compressibility ²⁾ (c)	EN12431	mm	--	1,2	--				

1) 9KPa load, linear regression processed from 0,1 to 2016 hours

2) determined for thickness 10 mm

3) r= roll p= pannel

4) a=1.500x38.000 b=1.500x35.500 c=740x740 d=1480x740

- Product does not contain substances classified as dangerous according to Regulation (EC) 1272/2008 and subsequent amendments. Please refer to article MS information sheet
- Classificazione delle FAV ai sensi del Regolamento (CE) 1272/2008 – allegato VI, come modificato dal regolamento (CE) 790/2009 secondo i criteri CLP. CATEGORIA DI PERICOLO: Esonerato dalla classificazione. NOTE: "R".
- Notes for disposal: product suitable to be transferred to landfill facilities for non-hazardous waste in compliance to D.M. 27/09/2010, CER 170604
- TARIC: 6806900000

All product information, data and technical details are based on the latest research and experience. We reserve the right to make technical alterations to the constructions recommended and to the handling as well as to further development of the individual products and associated changes in quality. All technical guidelines and requirements are to be adapted to local conditions and do not constitute factory, technical or assembly guidelines. The relevant technical guidelines and specifications for the products in the technical leaflets and system descriptions have to be observed. We will provide the most up to date technical information at the time of publishing. On publication of new data or releases, all previous publications become invalid. Please see on www.ecofine.it