



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 external ETICS.



CORE FEATURES

Superidrofobico: angolo di contatto > 150°
Insulation material made of high density fiberglass and silica aerogel
High thermal performance
Vapor breathable and superhydrophobic: contact angle > 150 °
Harmful emissions free, VOC A+ class

FIELD OF APPLICATION



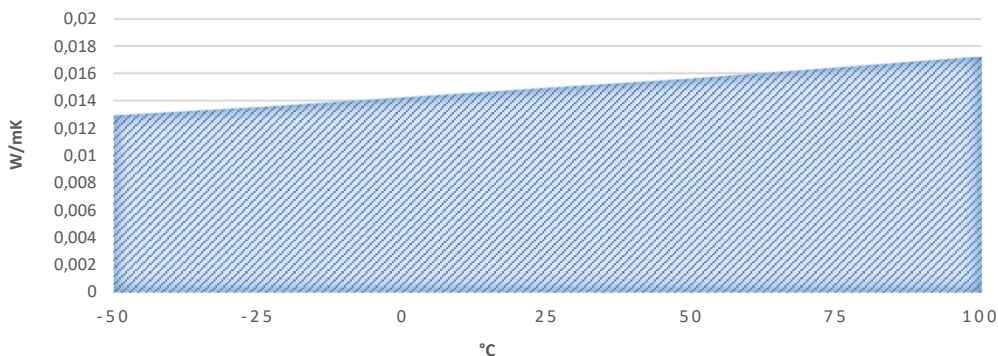
- Wall cavities
- External insulations
- Pitched roof
- Dry screed floors
- Flat roofs
- Thermal bridges

GUIDELINES

Please refer to case studies and original documentation on .ecofine.it
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.

PERFORMANCE

THERMAL CONDUCTIVITY ACCORDING TO WORKING TEMPERATURE *



* Trend obtained by interpolation with conversion coefficient $f_t = 0,0018913$

TECHNICAL DATA

FEATURE	STANDARD	U.M.	VALUE		
Thermal conductivity (λ_D) ¹⁾	EN10456	W/mK	0,015		
Calorific value (Cp)	EN10456	J/Kg.K	1030		
Nominal density	--	Kg./m ³	200 ± 10%		
Water vapour transmission rate (μ)	EN12086	--	13		
Permeabilità al vapore acqueo	EN12086	Kg./msPa	14,4x10 ⁻¹²		
Airflow resistivity (r)	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 (σ_{10})	EN826	KPa	54		
Compressive creep (ϵ_{10y}) ²⁾	EN1606	%	0,45 (3 KPa)	1,55 (6 KPa)	3,65 (9 KPa)
Dynamic stiffness (s') ¹⁾	EN29052-1	MN/m ³	43		
Compressibility (c) ¹⁾	EN12431	mm	1,2		
Tensile strength perpendicular to faces	EN1607	KPa	13		
Tensile strength parallel to faces	EN1608	KPa	perpendicular:202 parallel:1297		
Dimensional stability (70°C / 90%UR)	EN1604	%	width: $\Delta\epsilon_l < 1$ length: $\Delta\epsilon_b < 1$ thickness: $\Delta\epsilon_d < 1$		
Fire behaviour - EUROCLASS	EN13501-1	--	B s1 d0		
Volatile Organic Compounds (VOC)	EN16000-9	class	A+		
RoHS	EN62321	--	Directive 2011/65/EU compliant		

Nominal thickness	mm	6	10	20	30	40	50	
Size ³⁾	--	R	R/P	P*				
Dimension ⁴⁾	mm	A	B/C-D	C-D		D		
Thermal resistance	m ² K/W	0,4	0,66	1,32	1,98	2,64	3,30	
Service temperature ⁵⁾	°C	-30/+300						
Dimensional tolerance	%	width, length: ±1,5 thickness: 0/+15						
Flexibility	--	Y			N			
Airflow resistance (Sd)	m	0,078	0,13	0,26	0,39	0,52	0,65	

¹⁾ performance determined with thickness 10 mm ²⁾ linear regression processed from 1h to 2928h

³⁾ R=roll P=sheet P*= multi-layer panel ⁴⁾ A=1.500x38.000 B=1.500x35.500 C=740x740 D=1480x740

⁵⁾ no internal phenomena of "self heating", breaks, cavities, degradation of the fibrous structure or thickness reduction > 1%

- Product does not contain substances classified as dangerous according to Regulation (EC) 1272/2008 and subsequent amendments. Please refer to article Information sheet
- Classification of FAVs pursuant to Regulation (CE) 1272/2008 - Annex VI, as amended by Regulation (CE) 790/2009 according to the CLP criteria. HAZARD CATEGORY: Exempted from classification. NOTE: "R"
- CER: 17.06.04 . Article suitable to be transferred to landfill facilities for non-hazardous waste in compliance to D.M. 27/09/2010
- TARIC: 68 06 90 0000

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