

TECHNICAL DATA SHEET

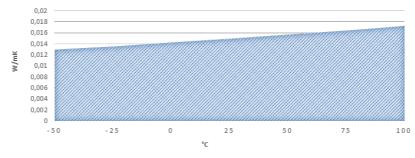




DESCRIPTION	Advanced	porous material for t	hermal insu	lation (APM)				
OVERVIEW	Thermal insulation sheets/panels made of continuous filament glass fibre and nanoporous synthetic amorphous silica aerogel.							
	AEROGEL	BV is provided with a	PE-AL-PE m	ulti-layer vapor barri	er, available	e on one o	both sides.	
		anels are compact and ion behavior.	tenacious	thanks to the high d	ensity fibro	ous matrix	that ensure adequate	
	-	ed for thermal insulat materials.	ion of buildi	ngs, boasts superio	r performan	nce compai	ed to traditional	
	Designed	for internal building r	estoration a	nd renovation applic	ations, and	generally	the whole application	
	0	igh insulation perform				0		
						ni idyers, e		
	vapour pe	ermeability.						
CORE FEATURES		Superior thermal insulation		Almost ze permeabil			Harmful emissions free	
	×	No-dust		Reduced t	hickness		Multy layer	
		Compression resistant	ø	Cut-to-siz	re	Š	Easy to install	
GUIDELINES	Precise c Joints will b Fixing to commonly	BV is easy to work : i uts allow an optimal n we sealed with aluminum ta brick or cement struc y used methods for w fer to the specific doo	natching of pe. tures made ood substra	the joints. No therm by adhesives or mea tes. Fixing points wi	al bridges. chanically. S Il be sealed	with alum	inum tape.	
FIELD OF APPLICATION		Wall cavities		Counter walls		Float	ing floors	
	$\widehat{\Box}$	False ceilings		Inner ceiling/roc	ſ			

PERFORMANCE

Thermal conductivity according to working temperature *



* Trend obtained by interpolation with conversion coefficient f t = 0,001 50343

TECHNICAL DATA	FEATURE		STANDARD	U.M.	VALUE
	Declared thermal conductivity ¹⁾	λ_{D}	EN10456	W/mK	0,016
	Thermal resistance ²⁾	R	-	m ² K/W	0,69
	Calorific value	Cp	EN10456	J/Kg.K	1030
	Nominal density		-	Kg./m ³	200 ± 10%
	Water vapour transmission rate	μ	EN12086	-	> 4,5x10 ⁶
	Water vapor permeability		EN12086	Kg./msPa	< 4x10 ⁻¹⁷
	Airflow thickness	Sd	EN12086	m	> 1400
	Short-term partial immersion water absorption	Wp	EN1609	Kg./m ²	0
	Long-term partial immersion water absorption	W _{lp}	EN12087	Kg./m ²	0
	Compression behaviour	σ ₁₀	EN826	KPa	54
	Point load behavior 4)	F ₅	EN12430	Ν	1 1 93 at 5 mm strain
	Compressive creep ³⁾	ε _{10Υ}	EN1606	%	0,45 (3 KPa) 1,55 (6 KPa) 3,65 (9 KPa)
	Dynamic stiffness ¹⁾	s'	EN29052-1	MN/m ³	43
	Compressibility ¹⁾	С	EN12431	mm	1,2
	Dimensional stability (70°C / 90%UR) ⁴⁾		EN1604	%	width : Δε _l <1 length : Δε _b <1 thickness : Δε _d <1
	Insulation' fire behaviour - EUROCLASS		EN13501-1	-	B / s1 / d0

	Lining' fire behaviour - EUROCLASS		EN13501-1 -		E				
	Service temperature range		-	°C		-30 / +70			
	 performance determined for 11 mm-thickness performance determined with no lining 	2) d/ D by d	2) d/ D by d = 0,01 1 m 3) inear regression processed from 1h to 2928h						
SIZES	Nominal thickness	mm	11	22	33	44	55		
	Size	-	Р	М	М	М	М		
	Dimension	mm	CD	CD	CD	CD	CD		
	Dimensional tolerance%width, lenght : ±1,5 ; thickness : 0/+15								
	P=panel M=multi-layer panel obtained by couplin	g of panels C=	740x740 D=11.48	0x740					
COMPLIANCE	P=panel M=multi-layer panel obtained by couplin Declaration of conformity by the mar				2-04-98.				
COMPLIANCE ADDITIONAL INFORMATION		ufacturer ir classified as	n compliance v	with D.M. 2		(EC) 1272/2	2008 and		
ADDITIONAL	Declaration of conformity by the mar Article does not contain substances	ufacturer ir classified as r to Informa Regulation	a compliance of dangerous a ation Sheet.	with D.M. 2	o Regulation				
ADDITIONAL	Declaration of conformity by the mar Article does not contain substances subsequent amendments. Please refe FAV classification in accordance with	ufacturer ir classified as r to Informa Regulation criteria.	dangerous a ation Sheet. (EC) No. 1272	with D.M. 2	o Regulation				
ADDITIONAL	Declaration of conformity by the mar Article does not contain substances subsequent amendments. Please refe FAV classification in accordance with (EC) No. 790/2009 according to CLP HAZARD CATEGORY : Exempted from o TARIC : 68 06 90 0000 Store the product in a dry place, awa	ufacturer ir classified as r to Informa Regulation criteria. classification	a compliance v ation Sheet. (EC) No. 127: n. NOTE : "R".	with D.M. 2 ccording to 2/2008 An	o Regulation				
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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