

TECHNICAL DATA SHEET PRO CERAMIC BLANKET MAT

PRO Ceramic Blanket Mat is manufactured from ultra-pure alumina and silica by spinning. These high-quality spun fibres produced in this process have been optimised for high handling strength, with the average highest tensile strength of all ceramic fibre mats. PRO Ceramic Blanket Mat is available in a wide range of densities and sizes. The mat provides excellent high-temperature performance and stability, enabling it to meet a wide range of heat and spare insulation applications in furnaces, heaters and other equipment requiring heat retention at high temperatures.

GENERAL FEATURES

- High temperature stability
- Low thermal conductivity and heat storage
- High tensile strength and elasticity
- o Resistant to thermal shock and chemical attack
- o Superior sound absorption

COMMON APPLICATIONS

- o High temperature furnace linings
- o Boiler insulation
- o High temperature resistant seals
- Pipe and duct insulation

MORE INFO

A Material Safety Data Sheet has been issued describing the health, safety and environmental properties of this product, identifying potential hazards and giving advice on handling precautions and emergency procedures. This must be consulted and fully understood before handling, storing or using.

PRO-HURT termoizolacje i uszczelnienia dla przemysłu				
PRO CERAMIC BLANKET				
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	PRO CERMIAC BLANKET 1260°				PRO CERMIAC BLANKET 1430°				
Chemical analysis									
SiO ₂	53.0 - 58.0				52.0 - 56.0				
AL ₂ O ₃	42.0 - 47.0				28.0 - 32.0				
ZrO ₂	-				14.0 - 18.0				
Zasady	< 0.25				< 0.25				
Fe ₂ O ₃ + TiO ₂	< 0.2				< 0.2				
Physical properties									
Colour	White				White				
Work temperature (^o C)	1260				1430				
Melting temperature (^o C)	1760				1740				
Fibre diameter (microns)	3.25				3.25				
Specific heat at 1000 °C (J / kgK)	1140				1035				
Persistent linear shrinkage (%) 24 hours soaking									
1250	2.6				2.7				
Density (kg/m ³)	64	96	128	160	96	128	160		
Thermal conductivity (W/m.K)									
Mean temperature									
200 ^o C			0,08						
400 °C			0,10						
600 ^o C	0,18	0,14	0,12	0,11					
800 ⁰ C	0,27	0,22	0,18	0,16	0,24	0,19	0,18		
1000 °C	0,42	0,36	0,28	0,21	0,34	0,27	0,25		
1200 °C					0,44	0,36	0,33		
Tensile strength (kPa)									
	35	55	75	95	70	90	110		

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