

Technical Data Sheet

Saffil® 72+

INTRODUCTION

Saffil 72+ is a furnace lining product for long-term or cyclic environments. Saffil 72+ is manufactured from polycrystalline mullite fiber in precisely controlled, state-of-the-art facilities to provide customers with highly consistent properties with no WHO fiber content. Saffil 72+ is available in a range of densities and forms such as blanket and Thermbond Insulating Solutions for a wide variety of applications up to 1600°C.

CHARACTERISTICS – Continuous use to 1,600 °C (2912 °F) – Very low shrinkage – Low to no shot content – Chemical stability – Exceptional strength – Consistent quality & dimensional tolerances – No WHO fiber content

SAFFIL® 72+ BLANKET PROPERTIES					
Max Service Temperature		1,600 °C		2912 °F	
Chemical Composition		72% Al ₂ O ₃ : 28% SiO ₂			
Mineral Composition		Mullite			
Bulk Density		100 kg/m ³	130 kg/m ³	6 lbs./ft ³	8 lbs./ft ³
Specific Heat Capacity 1093°C (2000°F)		1170 J/(kg·°C)		0.280 BTU _{IT} /(lb·°F)	
Thermal Conductivity	800°C (1,472°F) 1,200°C (2,192°F)	0.26 W/m·K 0.52 W/m·K	0.24 W/m·K 0.46 W/m·K	1.8 BTU _{IT} ·In/ft ² ·h·°F 3.6 BTU _{IT} ·In/ft ² ·h·°F	1.7 BTU _{IT} ·In/ft ² ·h·°F 3.2 BTU _{IT} ·In/ft ² ·h·°F
Heat Shrinkage	1,500°C (2732°F) X 24h	1.4 %			

SAFFIL® 72+ BLANKET PACKAGING					
Bulk Density	Thickness	Width	Length	Area / Carton	Rolls / Carton
100 kg/m ³ 6 lbs./ft ³	12.5mm ½"	610mm 24"	10,800mm 425.2"	6.59m ² 70.9ft ²	1
	25mm 1"	610mm 24"	10,800mm 425.2"	6.59m ² 70.9ft ²	1
130 kg/m ³ 8 lbs./ft ³	12.5mm ½"	610mm 24"	10,800mm 425.2"	6.59m ² 70.9ft ²	1
	25mm 1"	610mm 24"	9000mm 354.3"	4.39m ² 47.3ft ²	1

**Data shown above is based on averages subject to normal variation, and therefore are not guaranteed.

Saffil® is a registered trademark of Alkegen | LLC.

The test data shown are average results of tests conducted under standard procedures and are subject to variation. Results should not be used for specification purposes. Product Information Sheets are periodically updated by Alkegen. Before relying on any data or other information in this Product Information Sheet, you should confirm that it is still current and has not been superseded. A Product Information Sheet that has been superseded may contain incorrect, obsolete and/or irrelevant data and other information.

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Alkegen
Headquarters
5215 N. O'Connor Blvd, Suite 2300
Irving, TX 75039
Telephone: 716-768-6500
Website: www.alkegen.com
Email: info@alkegen.com

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