Technical Data Sheet



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/m³	130 kg/m ³	6 lbs./ft³	8 lbs./ft³				
Specific Heat Capacity 1093°C (2000°F)		1170 J/(kg·°C)		0.280 BTUı⊤/(lb.ºF)					
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 BTUπIn/ft²·h·°F 3.6 BTUπIn/ft²·h·°F	1.7 BTU⊪In/ft²·h·°F 3.2 BTU⊪In/ft²·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/m³ 6 lbs./ft³	12.5mm ½"	610mm 24"	10,800mm 425.2"	6.59m² 70.9ft²	1				
6 lbs./ft³	25mm 1"	610mm 24"	10,800mm 425.2"	6.59m² 70.9ft²	1				
130 kg/m³	12.5mm ½"	610mm 24"	10,800mm 425.2"	6.59m² 70.9ft²	1				
8 lbs./ft³	25mm 1"	610mm 24"	9000mm 354.3"	4.39m² 47.3ft²	1				

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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or other information in this Product Information Sheet, you should confirm that it is still current and has not been superseded. A Product Information Sheet that has been superseded may contain incorrect, obsolete and/or irrelevant data and other information.

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