

# 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 <sub>2</sub> O <sub>3</sub> : 28% SiO <sub>2</sub>				
Mineral Composition	Mullite				
Bulk Density	100 kg/m <sup>3</sup>	130 kg/m <sup>3</sup>	6 lbs./ft <sup>3</sup>	8 lbs./ft <sup>3</sup>	
Specific Heat Capacity 1093°C (2000°F)	1170 J/(kg·°C)			0.280 BTU <sub>IT</sub> /(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 <sub>IT</sub> ·In/ft <sup>2</sup> ·h·°F 3.6 BTU <sub>IT</sub> ·In/ft <sup>2</sup> ·h·°F	1.7 BTU <sub>IT</sub> ·In/ft <sup>2</sup> ·h·°F 3.2 BTU <sub>IT</sub> ·In/ft <sup>2</sup> ·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 <sup>3</sup> 6 lbs./ft <sup>3</sup>	12.5mm ½"	610mm 24"	10,800mm 425.2"	6.59m <sup>2</sup> 70.9ft <sup>2</sup>	1
	25mm 1"	610mm 24"	10,800mm 425.2"	6.59m <sup>2</sup> 70.9ft <sup>2</sup>	1
130 kg/m <sup>3</sup> 8 lbs./ft <sup>3</sup>	12.5mm ½"	610mm 24"	10,800mm 425.2"	6.59m <sup>2</sup> 70.9ft <sup>2</sup>	1
	25mm 1"	610mm 24"	7,200mm 283.5"	4.39m <sup>2</sup> 47.3ft <sup>2</sup>	1

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

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