



TTT-TSM-25

1 DESCRIPTION

TTT-TSM-25 is a lightweight, high temperature insulation composed of 100% amorphous silica fiber that has been specially treated during the manufacturing process to reduce residual shrinkage at elevated temperatures.

2 APPLICATIONS

TTT-TSM-25 is intended for use in glass furnace crown insulation repair, nuclear insulation applications, acoustic insulation, insulating pads and blankets, high temperature & acid resistant gaskets, exhaust manifold insulation, stress relieving pads, high temperature pipe and valve insulation, welding protection, thermal and acoustic insulation for steam and gas turbines, expansion joints and more.

3 ADVANTAGES

The unique properties of TTT-TSM-25 make it binder free, highly resilient, non-respirable, fireproof and cost effective. TTT-TSM-25 also has outstanding chemical resistance, has excellent sound absorption and low shrinkage.

4 PROPERTY DATA

Characteristics:	Method:	English Values:	Metric Values:
Thickness	ASTM-D-1777	1" +/- 10%	25.4 mm +/- 10%
Density		10.5 to 12.0 lbs/ft ³	168 to 192 kg/cc
Temperature Resistance	N/A	Intermittent: 2200°F Continuous: 2000°F Melting: 3100°F	Intermittent: 1200°C Continuous: 1100°C Melting: 1700°C
Linear Shrinkage	24 hrs at 1000°F (540°C) 24 hrs at 1200°F (990°C) 24 hrs at 1400°F (820°C) 24 hrs at 1600°F (1000°C) 24 hrs at 1800°F (1100°C) 24 hrs at 2000°F (1200°C)	0.05% 0.06% 0.06% 0.10% 0.30% 0.70%	
Thermal Conductivity	500°F (260°C) 1000°F (540°C) 1500°F (820°C) 1800°F (1000°C)	0.45 Btu-in/hr.ft 0.78 Btu-in/hr.ft 1.39 Btu-in/hr.ft 1.93 Btu-in/hr.ft	0.054 Kcal-m/hr.m ² °C 0.094 Kcal-m/hr.m ² °C 0.166 Kcal-m/hr.m ² °C 0.231 Kcal-m/hr.m ² °C
Color:	N/A	White	

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