

SPECIFICATION DATA SHEET

TI500

Heat Shield Insulation Material

Description

TI500 is a medium density, highly inorganic material with excellent heat and flame resistance, and low thermal conductivity. It is intended for use as a general purpose insulation material in 3-part heat shield construction, and can withstand a maximum temperature of 500°C. It is available in 0.5mm, 0.8mm, and 1.0mm thicknesses; other thicknesses may be subject to a minimum order quantity.

Specification Properties

Property	Value	Method
Density, g/cc (lb/cu.ft)	0.95 - 1.15 (59 - 72)	ASTM F 1315
Compressibility, % (at 6.9MPa)	10 (min.)	ASTM F 36K
Recovery, %	20 (min.)	ASTM F 36K
Tensile Strength, AMD, MPa (psi)	1.5 (220) (min.)	ASTM F 152
Weight Loss, % (1h at 600°C)	15 - 20	ASTM F 495
Thermal Conductivity, W/m.K (at 300°C)	0.15 (Typical Value)	ASTM F 433
Flame Resistance	DNI	SAE J 369

Remarks and Related Documents

Specification values determined by the test methods required for ASTM F-104, Type 3 materials. Items denoted (Typical Value) are provided for design purposes, but are not tested on a statistical basis.

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