

# HT-5050

## Heat Shield Filler Material

### Description

HT-5050 is a medium density, highly inorganic material with good heat and flame resistance, and low thermal conductivity. It is intended for use as a general purpose insulating filler material in 3-part heat shield construction, and can withstand a maximum temperature of 500°C. It is available in 0.8 to 1.5 mm gauges.

### Typical Properties

Property	Value	Method
Density, g/cc(lb/cu.ft)	0.96 (60) (min.)	ASTM F 1315
Tensile Strength, MD, MPa(psi)	2.50 (360) (min.)	ASTM F 152
Tensile Strength, AMD, MPa(psi)	1.30 (190) (min.)	ASTM F 152
Tensile Strength, MD, MPa(psi)	1.00 (145) (24 hrs @ 250°C)	ASTM F 152
Tensile Strength, AMD, MPa(psi)	1.00 (145) (24 hrs @ 250°C)	ASTM F 152
Weight Loss on Ignition, % (at 600°C)	20	ASTM F 495
Thermal Conductivity, W/m.K	0.18	ASTM F 433
Flame Resistance	SBO	SAE J 369

### Remarks and Related Documents

Typical values determined by the test methods required for ASTM F-104, Type 7 materials.

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