

Jagolit 438

Heat Shield Filler Material

Description

Jagolit 438 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 insulating filler material in 3-part heat shield construction, and can withstand a maximum temperature of 500°C. It is available in 0.5 and 1.0 mm thicknesses; other thicknesses may be subject to a minimum order quantity.

Specification Properties

Property	Value	Method
Density, g/cc(lb/cu.ft)	1.00 (62.4)	ASTM F 1315
Compressibility, % (at 6.9MPa)	17.0 (min.)	ASTM F 36
Recovery, %	35.0 (min.)	ASTM F 36
Tensile Strength, AMD, MPa(psi)	2.5 (362) (min.)	ASTM F 152
Tensile Strength, MD, MPa(psi)	3.8 (551) (min.)	ASTM F 152
Weight Loss, % (24 hr at 400°C)	14.0	ASTM F 495
Weight Loss on Ignition, % (at 600°C)	20.5	ASTM F 495
Thermal Conductivity, W/m.K	0.12 (Typical Value)	ASTM F 433
Flame Resistance	DNI (Typical Value)	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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