

MCC-A

EnCore® Combined Materials/Mechanically Clad Composite

Description

MCC-A is a high performance gasket material combining an inorganic fiber-based core with 0.2mm (0.008") perforated tin-plated steel facings on one or both sides. It is ideally suited for high temperature applications including exhaust manifold and header gaskets, engine heat shields, furnace and HVAC shielding, and small engine head and muffler gaskets. MCC-A is thermally stable and can be used to seal hot gases up to 760°C (1400°F) when properly clamped between flanges. The typical values below were established using only the fiber core without cladding, with a thickness of 1.0mm (0.039"). Double-clad material is available in 1.2mm (0.047") and 1.6mm (0.062") thicknesses, and single clad material is available in 1.0mm (0.039") and 1.2mm (0.047") thicknesses.

Specification Properties

Property	Value	Method
Density, g/cc(lb/cu.ft)	0.897 - 1.026 (56 - 64)	ASTM F 1315
Compressibility, % (at 6.9MPa)	21 - 39	ASTM F 36
Recovery, %	35 (min.)	ASTM F 36
Tensile Strength, AMD, MPa(ksi)	4.83 (700) (min.)	ASTM F 152
Weight Loss on Ignition, % (at 815°C)	32 (max.)	ASTM F 495
Fluid Resistance, IRM903 Oil		ASTM F 146
Change in Weight, %	70 (max.)	
Fluid Resistance, Fuel B		ASTM F 146
Change in Weight, %	65 (max.)	
Fluid Resistance, Distilled Water		ASTM F 146
Change in Weight, %	70 (max.)	

Remarks and Related Documents

Specification values determined by the test methods required for ASTM F-104, Type 3 materials.

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