ACCURATE FELT & GASKET MFG. COMPANY

3239 S. 51st Avenue
Cicero, IL 60804
Phone: 708-780-9000 Fax: 708-780-9009
www.afgco.com sales@afgco.com

MATERIAL SPECIFICATION

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 (0.008ò) 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 (0.039ò). Double-clad material is available in 1.2mm (0.047ò) and 1.6mm (0.062ò) thicknesses, and single clad material is available in 1.0mm (0.039ò) and 1.2mm (0.047ò) 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(psi)	4.83 (700) (min.)	ASTM F 152
Weight Loss on Ignition, % (at 815oC)	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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The information on this data sheet is based on laboratory test data we believe to be accurate, relevant and reliable. Please look upon these values as guides rather than absolutes. Since actual service conditions for a given application may vary substantially from standard laboratory conditions, specific recommendations or warranties relative to a specific end use cannot be made. The buyer is urged to conduct its own investigations and qualification tests to determine suitability for its intended application. Accurate Felt & Gasket Mfg. Co. shall not be liable for any damages arising out of the use of any of its guide specifications.