

ACCURATE FELT & GASKET MFG. COMPANY

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

MATERIAL SPECIFICATION

MBG-D

EnCore® Combined Materials/Mechanically-Bonded Fiber

Description:

MBG-D is a high performance gasket material combining expanded graphite facings on 0.2mm (0.008+) tang perforated tin-plated steel core. It is ideally suited for internal combustion engine applications such as head gaskets and exhaust flange gaskets. MBG is compressible and resilient, yet offers excellent bolt torque retention, excellent chemical resistance, and is heat resistant for exhaust gas sealing applications up to 550°C (1000°F) or higher when shielded. The typical values below were established using an overall thickness of 1.2mm (0.047+).

Typical Properties:

Property	Value	Method
Density, g/cc(lb/cu.ft)	1.12 (70) (facings only)	ASTM F 1315
Compressibility, % (at 34.5MPa)	23 - 30	ASTM F 36
Recovery, %	20 - 28	ASTM F 36
Tensile Strength, AMD, MPa(psi)	34.5 (5000)	ASTM F 152
Creep Relaxation, %	8 - 12	ASTM F 38
Fluid Resistance, IRM903 Oil		ASTM F 146
Change in Thickness, %	4 - 8	
Change in Weight, %	18 - 23	
Fluid Resistance, Fuel B		ASTM F 146
Change in Thickness, %	3 - 6	
Change in Weight, %	14 - 18	

Remarks and Related Documents:

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

EnCore®, Hydro-Fused®, MicroPore®, Pro-Formance®, Select-a-Seal®, Syntheseal®, Thermo-Tork®, and Voltoid® are registered trademarks of Interface Performance Materials, Inc. Select-a-Shield is a trademark of Interface Performance Materials, Inc.

Revised 06/20/17

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.

ISO 9001: 2008 Registered