

# MBG-C

## EnCore® Combined Materials/Mechanically-Bonded Graphite

### Description

MBG-C is a high performance gasket material combining graphite facings on a 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)	1.00 (62.4) (facings only)	ASTM F 1315
Compressibility, % (at 34.5MPa)	30 - 37	ASTM F 36
Recovery, %	16 - 22	ASTM F 36
Tensile Strength, AMD, MPa(psi)	41.4 (6000)	ASTM F 152
Creep Relaxation, %	4 - 12	ASTM F 38
Fluid Resistance, IRM903 Oil		ASTM F 146
Change in Thickness, %	4 - 13	
Change in Weight, %	18 - 22	
Fluid Resistance, Fuel B		ASTM F 146
Change in Thickness, %	1 - 5	
Change in Weight, %	12 - 16	

### Remarks and Related Documents

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

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