

# **GRAFOIL**<sup>®</sup>

# **GTC Flexible Graphite**

**TECHNICAL DATA SHEET 002** 

## Product Family - Single Layer Material (Service to 450° C)

- TG-411 99.998% Graphite
- GTA Nuclear 99.8% Graphite
- GTC 97% Graphite

#### **Product Overview**

GRAFOIL® GTC flexible graphite is designed for use in most automotive or internal combustion applications.

### **Applications**

- High-temp sealing applications where binder-based materials fail.
- Often combined with inserts to make head gaskets, exhaust manifold gaskets, EGR assemblies.

#### **Specification Properties\***

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CHARACTERISTIC	TYPICAL VALUE
	0.015" (0.38 mm)
	0.020" (0.51 mm)
Thickness	0.025" (0.64 mm)
	0.030" (0.76 mm)
	0.035" (0.89 mm)
Width	Can slit to width
Longth	2000' (609.6 m)
Length	1000' (304.8 m)
Bulk Density	70 lb/ft <sup>3</sup> (1.12 g/cc)
Ash Content	3%
Carbon Content	97%
Moisture	0.1%
Leachable Chloride	<10 ppm
Oxidation Weight Loss	12%
Compressibility at 5000 psi (35 MPa) load	43%

# GRAFOIL<sup>®</sup> GTC FLEXIBLE GRAPHITE

TYPICAL VALUE		
13%		
650 psi		
-400°F to 840°F (-240°C to 450°C)		
<3% for 70 lb/ft <sup>3</sup>		
<1.5 ml/min for 70 lb/ft <sup>3</sup>		
Certify to Grade		

Notes:

\* Properties listed are typical and cannot be used as accept/reject specifications.

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