

GTX-2 Flexible Graphite

TECHNICAL DATA SHEET 603

Product Family - Single Layer Materials - Oxidation Inhibited

- GTJ - Nuclear 99.8% Graphite, D50YP12 or SHELL MESC SPE 85/203
- GTX-2 98% Graphite, SHELL MESC SPE 85/203 Enhanced Oxidation Resistance
- GTX-NA - 98% Graphite, 10% Wt. Loss in SHELL MESC SPE 85/203, North American Flake Source
- GTB - 98% Graphite, FSA G-604-07 Method A

Product Overview

GRAFOIL® GTX-2 flexible graphite is oxidation/corrosion inhibited and has a service temperature of 538°C (1000°F). GTX-2 meets the oxidation requirements of SHELL MESC SPE 85/203.

Applications

- Heat exchanger gaskets
- Internal combustion gaskets
- Diesel exhaust gaskets
- Turbo charger gaskets



Typical Properties*

CHARACTERISTIC	TYPICAL VALUE
Thickness	0.015" (0.38 mm) 0.020" (0.51 mm) 0.025" (0.63 mm) 0.030" (0.76 mm)
Width	24" (610 mm) 39.4" (1000 mm) 60" (1500 mm)
Length	295' (90 m)
Bulk Density	70 lb/ft ³ (1.12 g/cc)
Ash Content**	1.3%
Leachable Chloride	<10 ppm
Sulfur Content	50 ppm

See next page for continued properties and notes.

Typical Properties-Continued*

CHARACTERISTIC	TYPICAL VALUE
Oxidation Weight Loss (SHELL MESC SPE 85/203 670°C for 4 hours)	10%
Oxidation Weight Loss (700°C for 5 hours)	8%
Oxidation Weight Loss (700°C for 3 hours)	4%
Compressibility at 5000 psi (35 MPa) load	43% for 70 lb/ft ³
Recovery after 5000 psi (35 MPa) load	15% for 70 lb/ft ³
Tensile Strength	650 psi for 70 lb/ft ³
Creep Relaxation Method: BSI-F125 at 6391 psi (44.1 MPa) load up to 400°C	<3% for 70 lb/ft ³
Sealability Method: Mod DIN 3535 at 580 psi N2 at 32 MPa load	<1.5 ml/min for 70 lb/ft ³
Certification	Certify to Grade

Notes:

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

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