

DURLON® Flexible Graphite

SEALING SOLUTIONS

Durlon® Flexible Graphite is unaffected by heat over a wide range of temperatures. It exhibits low electrical resistivity and high thermal conductivity and is suitable for cryogenic temperatures. Durlon® Flexible Graphite is suitable for applications in automotive, refining and petrochemical plant processes. Durlon® Flexible Graphite is available in several styles. These include homogeneous sheet and laminated styles with various types of core materials. Durlon® Flexible Graphite can also be special ordered with various inhibitors, grades of graphite and core materials to suit specific critical applications. Sheets sizes are available in 1000mm x 1000mm (39.4" x 39.4") and 1500mm x 1500mm (59.1" x 59.1") in most thicknesses. Contact your representative for more information.

Sizes & Types

- FGS95** Standard industrial grade sheet containing no binders or resins. This product is used in industrial applications such as oil refineries, power plants and chemical process plants.
- FGL316** Standard industrial grade sheet laminated with an adhesive bond on both sides of a 0.002" thick 316 stainless steel foil core. This product is used where high performance and handleability are important.
- FGT316** Standard industrial grade sheet mechanically bonded on both sides of a 0.004" thick 316 stainless steel tang core. This product is used where stresses and pressures are high and improved handleability is important.
- FGM316** Inhibited grade sheet laminated with multiple layers of 0.004" thick 316 stainless steel foil core. This products is used in applications with high mechanical stress or pressure, above average burst resistance exceptional rigidity, fire safe and suitable to cut gaskets with narrow strips.

Physical Properties				
Material	FGS95	FGL316	FGT316	FGM316
Temperature				
Min	-260°C (-450°F)	-260°C (-450°F)	-260°C (-450°F)	-260°C (-450°F)
Max, in air	454°C (850°F)	454°C (850°F)	454°C (850°F)	550°C (1,022°F)
Max, in steam	650°C (1,200°F)	650°C (1,200°F)	650°C (1,200°F)	650°C (1,200°F)
Pressure, max: bar (psi)	207 (3,000)	207 (3,000)	207 (3,000)	250 (3,625)
Compressibility, % ASTM F36	35-40	35-40	35-40	30-40
Recovery, % ASTM F36	20	18	20	10-15
Creep Relaxation, % ASTM F38	5	5	5	5
Ignition Loss, %				
@ 454°C (850°F)	1	1	1	<1
@ 650°C (1200°F)	8	6	6	<3
Sealability, cc/min ASTM F2378	0.4	0.4	0.8	0.4
ASTM F104 & F868 Line Call Outs	F104 - F517000B1M3	F868 - 9FMF2	F868 - 9FMF1	F868 - 9FMF2

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t - 613.968.1100
f - 613.968.1099
tf - 866.537.1133



Triangle Fluid Controls Ltd.®

Belleville, ON
CANADA

info@trianglefluid.com
www.trianglefluid.com