

DURLON[®] FLEXIBLE GRAPHITE

APPLICATION:

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.

COMPOSITION:

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.

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.

TYPICAL PROPERTIES:

	FGS95	FGL316	FGT316
Carbon, min %	95	95	95
Moisture, max %	1	1	1
Sulfur, max ppm	1200	1200	1200
Temperature			
Minimum	-450°F (-260°C)	-450°F (-260°C)	-450°F (-260°C)
Maximum in steam	1200°F (650°C)	1200°F (650°C)	1200°F (650°C)
Maximum in oxidizing	850°F (454°C)	850°F (454°C)	850°F (454°C)
Maximum in reducing	5432°F (3000°C)	—	—
Pressure, max, psi (bar)	3000 (207)	3000 (207)	3000 (207)
Compressibility, % ASTM F36	35-40	35-40	30-35
Recovery, % ASTM F36	20	18	20
Creep Relaxation, % ASTM F38	5	5	5
pH Range, room temperature	0 to 14	0 to 14	0 to 14
Nitrogen Sealability, cc/min ASTM F2378	0.4	0.4	0.8

Note: ASTM properties are based on 1/16" sheet thickness, except ASTM F38 which is based on 1/32" sheet thickness. This is a general guide only and should not be the sole means of accepting or rejecting this material. The data listed here falls within the normal range of product properties, but should not be used to establish specification limits nor used alone as the basis of design. For applications above Class 300, consult your representative.

AVAILABLE SIZES:

Nominal Thickness		Sheet Sizes	
		Inches	mm
1/32" (Not in FGT316)	0.8mm (Not in FGT316)	39.4 x 39.4	1000 x 1000
		59.1 x 59.1	1500 x 1500
1/16"	1.5mm	39.4 x 39.4	1000 x 1000
		59.1 x 59.1	1500 x 1500
1/8"	3.0mm	39.4 x 39.4	1000 x 1000
		59.1 x 59.1	1500 x 1500

Warning: Durlon® gasket materials should never be recommended when both temperature and pressure are at the maximum listed. Properties and applications in this book are typical. No application should be undertaken by anyone without independent study and evaluation for suitability. Never use more than one gasket in one flange joint and never reuse a gasket. Improper use or gasket selection could cause property damage and/or serious personal injury. Data reported in this book is a compilation of field testing, field service reports and/or in-house testing. While the utmost care has gone into publishing the information contained herein, we assume no responsibility for errors. Specifications and information contained in this book are subject to change without notice. This edition cancels and obsoletes all previous editions.



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