

Flexible Graphite Sheet

LAMINATED FLEXIBLE GRAPHITE SHEET § ASTM F104: F517000B1M3

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. This product is suitable for applications in the automotive, refining and petrochemical plant processes.

style composition description:

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FGS95	Homogeneous Flexible Graphite	Standard industrial grade sheet containing no binders or resins. Used in industrial applications such as oil refineries, power plants and chemical process plants.
FGL316	Laminated 0.002" Stainless 316 Foil Core/Flexible Graphite	Standard industrial grade sheet laminated with an adhesive bond on both sides of a .002" thick 316 stainless steel foil insert. Used where high performance and handleability is important.
FGT316	Laminated 0.004" Stainless 316 Tang Core/Flexible Graphite	Standard industrial grade sheet mechanically bonded on both sides of a .004" thick 316 stainless steel metal tang core. Used where stresses and pressures are high and improved handleability is important.
FGM316	Inhibited flexible graphite sheet laminated with multiple layers of 0.004" Stainless 316 foil	Inhibited flexible graphite sheet adhesively bonded to multiple layers of .004" thick 316 stainless steel foil. Used where stresses and pressures are high and improved handleability is important. Fire safe.

typical physical properties:

Test Method	FGS95	FGL316	FGT316	FGM316
Temperature				
Min.	-450°F (-260°C)	-450°F (-260°C)	-450°F (-260°C)	-450°F (-260°C)
Max, In air	850°F (454°C)	850°F (454°C)	850°F (454°C)	1022°F (550°C)
Max, In steam	1200°F (650°C)	1200°F (650°C)	1200°F (650°C)	1200°F (650°C)
Carbon Content, %	≥98	≥98	≥98	≥99
Graphite Grade	Standard	Standard	Standard	Super Inhibited
Pressure Max: psi (bar)	3000 (207)	3000 (207)	3000 (207)	3625 (250)
ASTM F36 - Compressibility, %	35-40	35-40	35-40	30-40
Recovery, %	20	18	20	10-15
ASTM F38 - Creep Relaxation,%	5	5	5	5
Ignition Loss, %				
@ 850°F (454°C)	1	1	1	1
@1200°F (650°C)	8	6	6	6
ASTM F2378 - Gas Permeability				
Nitrogen, cc/min	0.4	0.4	0.8	0.4
ASTM F104 & F868	F104	F868	F868	F868
Line Call-Outs:	F517000B1M3	9FMF2	9FMF1	9FMF2

Note: ASTM properties 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.

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