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Gasket Sheets

GRAFILIT[®]



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www.rubber-products.com.mk
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GRAFILIT[®] SF

GRAFILIT[®] SL

GRAFILIT[®] SP



PROPERTIES AND APPLICATIONS

GRAFILIT® SF is a gasket material with very low creep relaxation and high tightness at low bolt loading. It is suitable for almost all chemicals, in the food industry and in contact with drinking water. Because of its high compressibility it is suitable for glass or enamel flanges.

Composition	Flexible graphite sheets
Approvals	BAM (oxygen), DIN-DVGW DIN 3535-6, DVGW KTW, DVGW VP 401 (HTB)

DIMENSIONS OF STANDARD SHEET

Sheet size (mm): 1000 x 1000
 Thickness (mm): 1.0 | 1.5 | 2.0 | 3.0
 Roll size
 • width (mm): 4-1000
 • length (m): 50
 • thickness (mm): 0.5 | 0.8
 Other dimensions and thicknesses on request.

TECHNICAL DATA Typical values for a thickness of 1.5 mm

Compressibility	ASTM F 36A	%	45
Recovery	ASTM F 36A	%	13
Stress resistance	DIN 52913		
16h, 300°C, 50MPa		MPa	49
Specific leak rate	DIN 3535-6	mg/(s·m)	<0.02
Ash content of graphite	DIN 51903	%	<1
Chloride content	FSA NMG 202	ppm	<50
Fluoride content	FSA NMG 203	ppm	<50
Graphite density	DIN 28090-2	g/cm ³	1.0
Compression modulus	DIN 28090-2		
At room temperature: ϵ_{ksw}		%	38
At elevated temperature: $\epsilon_{wsw}/300^\circ\text{C}$		%	0.9
Creep relaxation percentage	DIN 28090-2		
At room temperature: ϵ_{ksw}		%	5.0
At elevated temperature: $\epsilon_{wsw}/300^\circ\text{C}$		%	4.5
Recovery R	DIN 28090-2	mm	0.088
Operating conditions			
Continuous temperature*			
- Air or oxidizing atmosphere		°C/°F	450/842
- Reducing or inert atmosphere		°C/°F	2500/4532
Minimum temperature*		°C/°F	-200/-328
Pressure*		bar/psi	80/1160

* Service limits are recommended for proper sealing conditions and gasket design.



Donit Tesnit, d.o.o.



PROPERTIES AND APPLICATIONS

GRAFILIT® SL is a gasket material with excellent strength and creep resistance, chemical stability and a high tightness rate. Because of a stainless-steel insertion it offers easier handling and installation compared to the non-reinforced. GRAFILIT® SL is suitable for a wide range of applications especially for higher operating pressures such as in gas supply.

Composition	Flexible graphite sheets laminated with flat stainless-steel insertion (AISI 316; 0.05mm)
Approvals	BAM (oxygen), DIN-DVGW DIN 3535-6, DVGW KTW, DVGW VP 401

DIMENSIONS OF STANDARD SHEET

Sheet size (mm): 1000 x 1000 | 1500 x 1500
 Thickness (mm): 1.0 | 1.5 | 2.0 | 3.0

TECHNICAL DATA Typical values for a thickness of 1.5 mm

Compressibility	ASTM F 36A	%	45
Recovery	ASTM F 36A	%	13
Stress resistance	DIN 52913		
16h, 300°C, 50MPa		MPa	49
Specific leak rate	DIN 3535-6	mg/(s·m)	<0.05
Ash content of graphite	DIN 51903	%	<1
Chloride content	FSA NMG 202	ppm	<50
Fluoride content	FSA NMG 203	ppm	<50
Graphite density	DIN 28090-2	g/cm ³	1.0
Compression modulus	DIN 28090-2		
At room temperature: ϵ_{ksw}		%	41
At elevated temperature: $\epsilon_{wsw}/300^\circ\text{C}$		%	1.1
Creep relaxation percentage	DIN 28090-2		
At room temperature: ϵ_{ksw}		%	4.5
At elevated temperature: $\epsilon_{wsw}/300^\circ\text{C}$		%	4.0
Recovery R	DIN 28090-2	mm	0.080
Operating conditions			
Continuous temperature*			
Air or oxidizing atmosphere		°C/°F	450/842
Reducing or inert atmosphere		°C/°F	700/1292
Minimum temperature*		°C/°F	-200/-328
Pressure*		bar/psi	100/1450

* Service limits are recommended for proper sealing conditions and gasket design.



Donit Tesnit, d.o.o.



PROPERTIES AND APPLICATIONS

GRAFILIT® SP is a gasket material which combines the excellent properties of expanded graphite and the strength of stainless steel. This type of material features has very good strength, and creep resistance, chemical stability and high tightness. Grafilit SP is used in the chemical and petrochemical industries, at high surface loads or high operating pressures.

Composition	Flexible graphite sheets mechanically bonded to a tanged stainless-steel insertion (AISI 316; 0.1mm)
Approvals	BAM (oxygen), Germanischer Lloyd, DIN-DVGW DIN 3535-6, DVGW KTW, Fire safe API 607, DVGW VP 401

DIMENSIONS OF STANDARD SHEET

Sheet size (mm): 1000 x 1000 | 1500 x 1500
Thickness (mm): 1.0 | 1.5 | 2.0 | 3.0

TECHNICAL DATA

Typical values for a thickness of 1.5 mm

Compressibility	ASTM F 36A	%	35
Recovery	ASTM F 36A	%	17
Stress resistance	DIN 52913		
16h, 300°C, 50MPa		MPa	49
Specific leak rate	DIN 3535-6	mg/(s•m)	<0.05
Ash content of graphite	DIN 51903	%	<1
Chloride content	FSA NMG 202	ppm	<50
Fluoride content	FSA NMG 203	ppm	<50
Graphite density	DIN 28090-2	g/cm ³	1.0
Compression modulus	DIN 28090-2		
At room temperature: ϵ_{ksw}		%	32
At elevated temperature: $\epsilon_{wsw}/300^\circ\text{C}$		%	1.2
Creep relaxation percentage	DIN 28090-2		
At room temperature: ϵ_{ksw}		%	4.5
At elevated temperature: $\epsilon_{wsw}/300^\circ\text{C}$		%	4.0
Recovery R	DIN 28090-2	mm	0.086
Operating conditions			
Continuous temperature*			
Air or oxidizing atmosphere		°C/°F	450/842
Reducing or inert atmosphere		°C/°F	700/1292
Minimum temperature*		°C/°F	-200/-328
Pressure*		bar/psi	200/2900

* Service limits are recommended for proper sealing conditions and gasket design.

