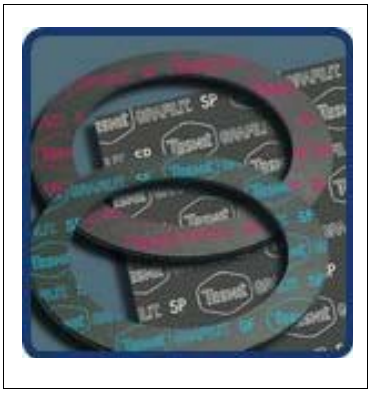
GRAFILIT



GRAFILIT - SF : without insertion
GRAFILIT - SL : laminated with flat stainless steel insertion (AISI 316; 0,05)
GRAFILIT - SP : mechanically bonded to a tanged SS insertion (AISI 316 : 0.1)

General properties and application.
Flexible graphite gasket materials exhibit excellent creep, strength, chemical stability and high tightness.
They are ideal for a wide range of applications under various conditions at high temperature and pressure, mechanical and thermal cycles and shocks.
Flexible graphite gasket materials are suitable to confine steam as well as practically all chemicals.
Exceptions are strong oxidizing media such as nitric acid, chromic acid, etc.

Approvals	:	KTW / BAM (Conforms to DIN 28091-4)
Applied for approvals	:	DVGW / HTB
Sheet dimensions	:	1000 x 1000 mm
Thickness	:	1.0 - 1.5 - 2.0 - 3.0 mm

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TECHICAL DATA		GRAFILIT-SF	GRAFILIT-SL	GRAFILIT-SP
Continuous use of maximum temperature*				
- Air of oxidizing atmosphere		450°C	450°C	450°C
- Reducing or inert atmosphere		2500°C	700°C	700°C
Continuous use of min. temperature*		200°C	200°C	200°C
Continuous use of max. pressure*		80 bar	100 bar	200 bar
Compressibility	ASTM F36	45%	45%	35%
Recovery	ASTM F36	13%	13%	17%
Stress resistance (16h - 300°C	DIN 52913**	49 N/mm2	49 N/mm2	49 N/mm2
Permeability to nitrogen (40 bar - RT)	DIN 3535/6	<0.02 mg/s-m	<0.05 mg/s-m	<0.05 mg/s-m
Ash content of graphite	DIN 51903	<2%	<2%	<2%
Chloride content	DIN 28090-2	<50 ppm	<50 ppm	<50 ppm
Fluoride content	FSA NMG 203-89	<50 ppm	<50 ppm	<50 ppm
Density of the graphite	DIN 28090-2	1.0 g/cm3	1.0 g/cm3	1.0 g/cm3
Compression modules	DIN 28090-2			
- At room temperature : ε$_{WSW}$		38%	41%	32%
- At elevated temperature : ε$_{WSW/300°C}$		0.9%	1.1%	1.2%
Percentage creep relaxation	DIN 28090-2			
- At room temperature : ε$_{WSW}$		5.0%	4.5%	4.5%
- At elevated temperature : ε$_{WSW/300°C}$		4.5%	4.0%	4.0%
Recovery R	DIN 28090-2	0.088 mm	0.080 mm	0.086 mm

*Service limits are recommended for proper sealing conditions and gaskets design.
** Standard is with drown

Grafilit is also available in rolls;
Width : 4-1000 mm
Length : standard 50 m
Thickness : standard 0.5 and 0.8 mm
Other dimensions are available on request.

The Pressure - Temperature charts are the most current method of determining the suitability of a gasket material in a known application. Maximum figures for temperature and pressure can be misleading. Max. temperature and max. pressure represent maximum values and should not be used simultaneously. They are given only for guidance, since this max. values depend not only on the type of gasket material but also on the assembly conditions. Use the pressure and temperature graphs to check suitability of chosen gasket material for your application (combination of pressure and temperature).