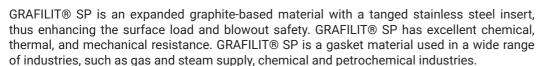
GRAFILIT® SP





Composition	Expanded graphite
Color	Black
Approvals and compliances	API 607, BAM (oxygen), DNV, DVGW DIN 30653 HTB (5bar), DVGW DIN 3535-6
Sheet dimensions	Sizes (mm):1000 x 1000 1500 x 1500 Thicknesses (mm):1 1.5 2 3 Rolls:/ Other sizes and thicknesses available on request
Tolerances	\pm 20 mm on length and width On thickness up to 1.0 mm \pm 0.1 mm On thickness above 1.0 mm \pm 10 %
Surface finish	

TECHNICAL DATA for 2 mm

Density	DIN 28090-2	g/cm3	1.5	
Density (plain graphite)	DIN 28090-2	g/cm3	1.0	APPROPRIATE INDUSTI
Total sulfur content	ASTM D5016	ppm	/	APPLICATIONS
Leachable chloride content	FSA NMG 202	ppm	20	AUTOMOTIVE AND ENGINE BUILDING INDUSTRIES
Leachable fluoride content	FSA NMG 203	ppm	20	
Leachable halogen content			/	CHEMICAL INDUSTRY
Ash content	DIN 51903	%	<1	GOMPRESSORS & PUMPS
Weight loss (air, 670°C, 4 h)	DIN 28090-2	%/h	/	GAS SUPPLY
Compressibility	ASTM F36A	%	35	GENERAL PURPOSE
Recovery	ASTM F36A	%	17	
Tensile strength	ASTM F152			* HEATING SYSTEMS
Longitudinal		MPa	/	l HIGH-TEMPERATURE APP.
Transversal		٧	/	PAPER & CELLULOSE INDUS
Residual stress	DIN 52913			PETROCHEMICAL INDUSTR
50 MPa, 300°C, 16 h		MPa	49	A DOTABLE WATER OURBLY
Specific leak rate	DIN 3535-6	mg/(s·m)	0.05	POTABLE WATER SUPPLY
Thickness increase	ASTM F146			POWER PLANT
Oil IRM 903, 150°C, 5 h		%	/	REFRIGERATION & COOLING
ASTM Fuel B, 23°C, 5 h		%	/	♣ SHIPBUILDING
Compression modulus	DIN 28090-2			- ₩ STEAM SUPPLY
At room temperature: εKSW		%	34	
At elevated temperature: εWSW/300°C		%	1.2	
Creep relaxation	DIN 28090-2			WATER SUPPLY
At room temperature: εKRW		%	4.2	
At elevated temperature: εWRW/300°C		%	3.3	
Operating conditions				
Minimum temperature		°C/°F	-200/-328	

APPROPRIATE INDUSTRIES & APPLICATIONS

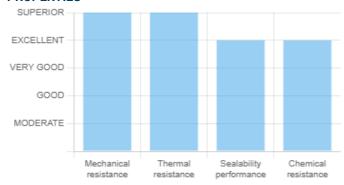
- AUTOMOTIVE AND ENGINE **BUILDING INDUSTRIES**
- CHEMICAL INDUSTRY
- **COMPRESSORS & PUMPS**
- **GAS SUPPLY**
- GENERAL PURPOSE
- HEATING SYSTEMS
- HIGH-TEMPERATURE APP.
- PAPER & CELLULOSE INDUSTRIES
- PETROCHEMICAL INDUSTRY
- POWER PLANT
- **REFRIGERATION & COOLING**
- SHIPBUILDING
- STEAM SUPPLY
- **VALVES**
- WATER SUPPLY

Maximum continuous temperature		
- under oxidizing atmosphere	°C/°F	550/1022
- under reducing or inert atmosphere	°C/°F	700/1292
Maximum pressure		200/2900

GRAFILIT® SP



PROPERTIES



CHEMICAL RESISTANCE CHART

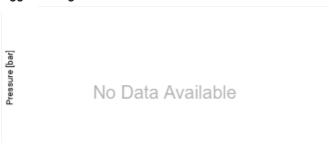


EN 13555



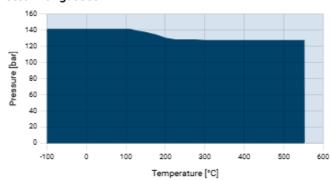
P-T DIAGRAMS EN 1514-1, Type IBC, PN 40, DIN 28091-2 / 3.8, 2 mm

Aggressive gasses

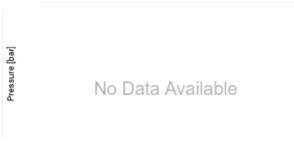


Temperature [°C]

Steam or gasses



Liquids



Temperature [°C]

Legend:

- General suitability Under common installation practices and chemical compatibility.
- Conditional suitability Appropriate measures ensure maximum performance for joint design and gasket installation. Technical consultation is recommended.
- Limited suitability Technical consultation is mandatory.

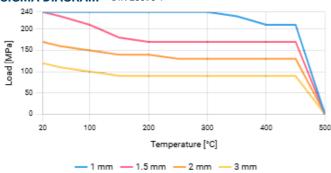
P-T diagrams indicate the maximum permissible combination of internal pressure and service temperature which can be simultaneously applied to a given gaskets thickness, size and tightness class. Given the wide variety of gasket applications and service conditions, these values should only be regarded as a guidance for the proper gasket assembly. In general, thinner gaskets exhibit better P-T properties.

 σBO diagrams represent σBO values for different gasket material thicknesses. These values indicate the maximum in-service compressive pressures which can be applied on the gasket area involved without destructing or damaging the gasket material.

All information and data quoted are based upon decades of experience in the production and operation of sealing elements. This data may not be used to support any warranty claims. With its publication this latest edition supersedes all previous issues and is subject to change without further notice.

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