Weyn - Lauwers N.V.
Industriepark-Noord 12
B - 9100 SINT-NIKLAAS
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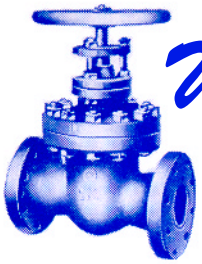
weynlauwers@weynlauwers.be
www.weynlauwers.be

VLAKKE DICHTINGEN
DIN 2690
GRAFILIT SP

OMSCHRIJVING	codenr.	DN	afmetingen (mm)
GRAFIET STOOMDICHTINGEN		DN 10	46 x 18
DIN 2690	600762	DN 15	51 x 21
2 mm DIK	600763	DN 20	61 x 27
	600764	DN 25	71 x 34
	600765	DN 32	82 x 43
	600766	DN 40	92 x 49
	600767	DN 50	107 x 61
	600768	DN 65	127 x 77
	600769	DN 80	149 x 90
	600770	DN 100	162 x 115
	600771	DN 125	192 x 141
	600772	DN 150	218 x 169
	600773	DN 200	273 x 220
	600774	DN 250	328 x 274
	600775	DN 300	378 x 325
	600776	DN 350	438 x 368
	600777	DN 400	490 x 420
	600778	DN 450	
	600779	DN 500	
	600780	DN 600	695 x 610



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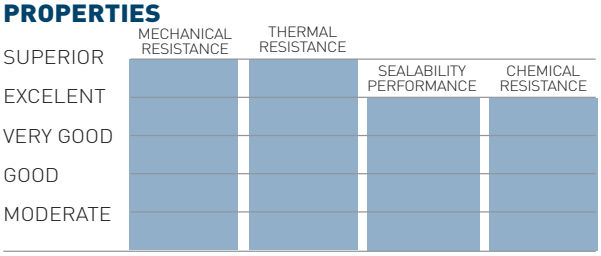
GRAFILIT SP

GRAFILIT® SP is an expanded graphite based material with tanged stainless steel insert, thus enhances the surface load and blowout safety. GRAFILIT® SP has excellent chemical, thermal, and mechanical resistance. GRAFILIT® SP is gasket material used in wide range of industries, as gas and steam supply, chemical and petrochemical industry.

PROPERTIES



APPROPRIATE INDUSTRIES & APPLICATIONS

- GENERAL PURPOSE
- WATER SUPPLY
- POTABLE WATER SUPPLY
- STEAM SUPPLY
- GAS SUPPLY
- CHEMICAL INDUSTRY
- PETROCHEMICAL INDUSTRY
- PAPER AND CELLULOSE INDUSTRY
- AUTOMOTIVE AND ENGINE BUILDING INDUSTRY
- SHIPBUILDING
- POWER PLANT
- REFRIGERATION AND COOLING
- HEATING SYSTEMS
- HIGH TEMP. APPLICATIONS
- COMPRESSORS AND PUMPS
- VALVES

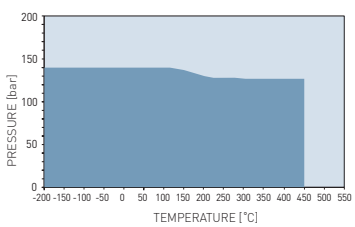
Composition	Expanded natural graphite, tanged stainless steel sheet insert (AISI 316; 0.1 mm).
Colour	Black
Approvals	DIN-DVGW DIN 3535-6, DVGW KTW, DVGW VP 401, API 607, BAM (Oxygen), Germanischer Lloyd

TECHNICAL DATA Typical values for a thickness of 1.5 mm

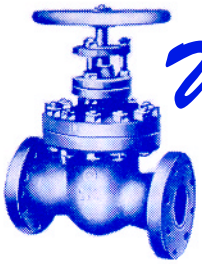
Density	DIN 28090-2	g/cm³	1.5
Compressibility	ASTM F36A	%	35
Recovery	ASTM F36A	%	17
Stress resistance	DIN 52913		
16 h, 50 MPa, 300 °C		MPa	49
Specific leak rate	DIN 3535-6	mg/(s·m)	0.05
Leachable chloride content	FSA NMG 202	ppm	20
Leachable fluoride content	FSA NMG 203	ppm	20
Ash content of graphite	DIN 51903	%	<1
Compression modulus	DIN 28090-2		
At room temperature: ε_{KSW}		%	34
At elevated temperature: $\varepsilon_{WSW/300\ °C}$		%	1.2
Percentage creep relaxation	DIN 28090-2		
At room temperature: ε_{KRW}		%	4.2
At elevated temperature: $\varepsilon_{WRW/300\ °C}$		%	3.3
Operating conditions			
Minimum temperature		°C/°F	-200/-328
Continuous temperature			
- oxidizing atmosphere		°C/°F	550/1022
- reducing or inert atmosphere		°C/°F	700/1292
Pressure		bar/psi	200/1450

P-T DIAGRAM

EN 1514-1, Type IBC, PN 40, DIN 28091-2 / 3.8, 1.5 mm



- General suitability - Appropriate measures ensure maximum performance for joint design and gasket installation.
- Limited suitability - Technical consultation is mandatory.



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Acetamide	
Acetic acid, 10%	+
Acetic acid, 100% (Glacial)	?
Acetone	+
Acetonitrile	+
Acetylene (gas)	+
Acid chlorides	?
Acrylic acid	+
Acrylonitrile	+
Adipic acid	+
Air (gas)	+
Alcohols	+
Aldehydes	+
Alum	?
Aluminium acetate	?
Aluminium chlorate	?
Aluminium chloride	-
Aluminium sulfate	+
Amines	+
Ammonia (gas)	+
Ammonium bicarbonate	+
Ammonium chloride	?
Ammonium hydroxide	+
Amyl acetate	+
Anhydrides	+
Aniline	+
Anisole	+
Argon (gas)	+
Asphalt	+
Barium chloride	?
Benzaldehyde	+
Benzene	+
Benzoic acid	+
Bio-diesel	+
Bio-ethanol	+
Black liquor	?
Borax	+
Boric acid	+
Butadiene (gas)	+
Butane (gas)	+
Butyl alcohol (Butanol)	+
Butyric acid	+
Calcium chloride	?
Calcium hydroxide	+
Carbon dioxide (gas)	+
Carbon monoxide (gas)	+
Cellosolve	+
Chlorine (gas)	?
Chlorine (in water)	
Chlorobenzene	+
Chloroform	+
Chloroprene	+
Chlorosilanes	?
Chromic acid	-
Citric acid	?
Copper acetate	+
Copper sulfate	+
Creosote	+
Cresols (Cresylic acid)	+
Cyclohexane	+
Cyclohexanol	+
Cyclohexanone	+
Decalin	+
Dextrin	+
Dibenzyl ether	+
Dibutyl phthalate	+
Dimethylacetamide (DMA)	+
Dimethylformamide (DMF)	+

Dioxane	+
Diphyl (Dowtherm A)	+
Esters	+
Ethane (gas)	+
Ethers	+
Ethyl acetate	+
Ethyl alcohol (Ethanol)	+
Ethyl cellulose	+
Ethyl chloride (gas)	+
Ethylene (gas)	+
Ethylene glycol	+
Formaldehyde (Formalin)	+
Formamide	+
Formic acid, 10%	
Formic acid, 85%	?
Formic acid, 100%	?
Freon-12 (R-12)	+
Freon-134a (R-134a)	+
Freon-22 (R-22)	+
Fruit juices	+
Fuel oil	+
Gasoline	+
Gelatin	+
Glycerine (Glycerol)	+
Glycols	+
Helium (gas)	+
Heptane	+
Hydraulic oil (Glycol based)	+
Hydraulic oil (Mineral type)	+
Hydraulic oil (Phosphate ester based)	+
Hydrazine	+
Hydrocarbons	+
Hydrochloric acid, 10%	-
Hydrochloric acid, 37%	-
Hydrofluoric acid, 10%	-
Hydrofluoric acid, 48%	-
Hydrogen (gas)	+
Iron sulfate	+
Isobutane (gas)	+
Isooctane	+
Isoprene	+
Isopropyl alcohol (Isopropanol)	+
Kerosene	+
Ketones	+
Lactic acid	?
Lead acetate	+
Lead arsenate	+
Magnesium sulfate	+
Maleic acid	+
Malic acid	?
Methane (gas)	+
Methyl alcohol (Methanol)	+
Methyl chloride (gas)	+
Methylene dichloride	+
Methyl ethyl ketone (MEK)	+
N-Methyl-pyrrolidone (NMP)	+
Milk	+
Mineral oil (ASTM no.1)	+
Motor oil	+
Naphtha	+
Nitric acid, 10%	?
Nitric acid, 65%	?
Nitrobenzene	+
Nitrogen (gas)	+
Nitrous gases (NOx)	?
Octane	+
Oils (Essential)	+
Oils (Vegetable)	+

Oleic acid	+
Oleum (Sulfuric acid, fuming)	-
Oxalic acid	?
Oxygen (gas)	+
Palmitic acid	+
Paraffin oil	+
Pentane	+
Perchloroethylene	+
Petroleum (Crude oil)	+
Phenol (Carbolic acid)	+
Phosphoric acid, 40%	?
Phosphoric acid, 85%	?
Phthalic acid	+
Potassium acetate	+
Potassium bicarbonate	+
Potassium carbonate	+
Potassium chloride	+
Potassium cyanide	+
Potassium dichromate	?
Potassium hydroxide	+
Potassium iodide	+
Potassium nitrate	+
Potassium permanganate	?
Propane (gas)	+
Propylene (gas)	+
Pyridine	+
Salicylic acid	+
Seawater/brine	?
Silicones (oil/grease)	+
Soaps	+
Sodium aluminate	+
Sodium bicarbonate	+
Sodium bisulfite	+
Sodium carbonate	+
Sodium chloride	+
Sodium cyanide	+
Sodium hydroxide	+
Sodium hypochlorite (Bleach)	-
Sodium silicate (Water glass)	+
Sodium sulfate	+
Sodium sulfide	?
Starch	+
Steam	+
Stearic acid	+
Styrene	+
Sugars	+
Sulfur	+
Sulfur dioxide (gas)	+
Sulfuric acid, 20%	-
Sulfuric acid, 98%	-
Sulfuryl chloride	-
Tar	+
Tartaric acid	?
Tetrahydrofuran (THF)	+
Titanium tetrachloride	-
Toluene	+
2,4-Toluenediisocyanate	+
Transformer oil (Mineral type)	+
Trichloroethylene	+
Vinegar	+
Vinyl chloride (gas)	+
Vinylidene chloride	+
Water	+
White spirits	+
Xylenes	+
Xylenol	+
Zinc sulfate	+

CHEMICAL RESISTANCE CHART

The recommendations made here are intended to be a guideline for the selection of the suitable gasket quality. Because the function and durability of the products depend upon a number of factors, the data may not be used to support any warranty claims.

\+ Recommended
? Recommendation depends on operating conditions
\- Not recommended