

Product	Description	Dimension (mm)	Graphite quality	Anti stick coating	Application
H	Flexible graphite foil, no adhesive	Sheet: 2000 x 1000 mm 1000 x 1000 mm Roll length: 10 – 50 m Thickness: 0.25, 0.38, 0.50, 0.76, 1.00, 1.50 mm	A B C	yes / no 1.50 mm no	Gasket material for - high and low temperature - highly corrosive media - chemical and petrochemical power stations - sensitive flanges - automotive industry
HL	Flexible graphite foil, bonded	Sheet: 2000 x 1000 mm 1000 x 1000 mm Thickness: 1.50, 2.00, 3.00 mm	A B C	yes / no	Gasket material for - high and low temperature - highly corrosive media - chemical and petrochemical power stations - sensitive flanges - automotive industry The bonding gives the material greater inherent mechanical stability
ECM	Reinforced graphite laminate with expanded carbon steel insert 0.50 mm, bonded	Sheet: 2000 x 1000 mm 1000 x 1000 mm Thickness: 1.00, 1.50, 2.00, 3.00 mm	A B C	yes / no	Gasket material for - general installations

Product	Description	Dimension (mm)	Graphite quality	Anti stick coating	Application
ESM	Reinforced graphite laminate with expanded stainless steel insert 0.50 mm, bonded	Sheet: 2000 x 1000 mm 1000 x 1000 mm Thickness: 1.00, 1.50, 2.00, 3.00 mm	A B C	yes / no	Gasket material for - general installations
G ...B1 G ...B2	Graphite laminate with polymer coating B1 one side, B2 double sided	Sheet: 2000 x 1000 mm 1000 x 1000 mm Thickness: 1.50, 2.00, 3.00 mm	A B C	no	Gasket material for - valves - pumps - flanges - compressors
PCM	Reinforced graphite laminate with Tang carbon steel insert 0.20 mm	Sheet: 1000 x 1000 mm Thickness: 1.00, 1.50, 2.00 mm	A B C	yes / no	Gasket material for - pipe work and vessels in chemistry, petrochemistry and power stations - raised face diameters < 1500 mm
PDM	Reinforced graphite laminate with 2 tang stainless steel inserts 0.10 mm (graphite density 1.3 g/cm ³)	Sheet: 2000 x 1000 mm 1000 x 1000 mm Thickness: 1.00, 1.50, 2.00, 3.00 mm	A B C	yes / no	Gasket material for - pipe work and vessels in chemistry, petrochemistry and power stations - raised face diameters < 1500 mm Material has increased mechanical Stability compared with PSM
PMM	Reinforced graphite laminate with tang Monel insert 0.10 mm	Sheet; 1000 x 610 mm Thickness: 1.00, 1.50, 2.00, 3.00 mm	A B C	yes / no	Gasket material for - special chemical resistance to the applied medium

Product	Description	Dimension (mm)	Graphite quality	Anti stick coating	Application
PSM	Reinforced graphite laminate with tang stainless steel insert 0.10 mm	Sheet: 2000 x 1000 mm 1000 x 1000 mm 1500 x 1500 mm Thickness: 0.60, 0.80 mm (only 1x1 m); 1.00, 1.50, 2.00, 3.00, 4.00, 5.00, 6.00 mm	A B C B C	yes / no no	Gasket material for - pipe work and vessels in chemistry, petrochemistry and power stations - raised face diameters < 1500 mm - electric valve for steam - head cylinder for paper mill - cooling compressors This is one of the standard gaskets to be applied in most cases without problems
PST	Reinforced graphite laminate with tang titanium insert 0.10 mm	Sheet: 1000 x 610 mm Thickness: 1.00, 1.50, 2.00, 3.00 mm	A B C	yes / no	Gasket material for - exceptional circumstances (aerospace)
SAB	Reinforced graphite laminate with aluminum layer 0.025 mm, bonded, self adhesive, adhesive covered with Si-paper	Sheet: 2000 x 1000 mm 1000 x 1000 mm Roll length: 10 – 50 m Thickness: Roll: 0.25, 0.38, 0.50, 0.76 Sheet: 1.00 mm	A B C	yes / no	

Product	Description	Dimension (mm)	Graphite quality	Anti stick coating	Application
SDS	Reinforced graphite laminate with 2 stainless steel inserts 0.050 mm, bonded (graphite density 1.3 g/cm ³)	Sheet: 1000 x 1000 mm Thickness: 1.50, 2.00, 3.00 mm	A B C	yes / no	Gasket material for - pumps - fittings - gas - offshore application - waste gas pipeline - steam
SLA	Reinforced graphite laminate with aluminum insert 0.10 mm bonded	Sheet: 2000 x 1000 mm 1000 x 1000 mm Roll length: 10 – 100 m Thickness: Roll: 0.60, 0.80, 1.00 mm Sheet: 1.50, 2.00, 3.00 mm	A B C	yes / no	
SLG	Graphite laminate with glass fiber insert 0.20 mm, bonded	Sheet: 1000 x 1000 mm Thickness: 0.60, 0.70, 1.00, 1.50, 2.00, 3.00 mm	A B C	yes / no	Gasket material for - energy application at higher temperature - manual cutting of gaskets from sheets

Product	Description	Dimension (mm)	Graphite quality	Anti stick coating	Application
SLM	Reinforced graphite laminate with plain Monel insert 0.05 mm, bonded	Sheet: 1000 x 610 mm Thickness: 1.00, 1.50, 2.00, 3.00 mm	A B C	yes / no	Gasket material for - special chemical resistance to the applied medium
SLN	Reinforced graphite laminate with Nickel insert 0.013 mm, bonded	Sheet: 1000 x 1000 mm 1000 x 500 mm Thickness: 0.50, 0.75, 1.00, 1.50, 2.00, 3.00 mm	A B C	yes / no	Gasket material for - steam boilers
SLS	Reinforced graphite laminate with plain stainless steel insert 0.05 mm, bonded	Sheet: 2000 x 1000 mm 1000 x 1000 mm 1500 x 1500 mm Roll length: 10 – 50 m Thickness: Roll : 0.50, 0.60, 0.80, 1.00 mm Sheet: 1.50, 2.00, 3.00 mm	A B C B C	yes / no no	Gasket material for - pumps - fittings - gas - offshore application - waste gas pipeline - steam

Product	Description	Dimension (mm)	Graphite quality	Anti stick coating	Application
SLT	Reinforced graphite laminate with plain titanium insert, bonded	Sheet: 1000 x 610 mm Thickness: 1.00, 1.50, 2.00, 3.00 mm	A B C	yes / no	
SLW	Reinforced graphite laminate with wire mesh insert AISI 304 0.18 mm, bonded	Sheet: 1500 x 1000 mm Thickness: 1.00, 1.50, 2.00, 3.00 mm	A B C	yes / no	
SMB	Graphite laminate with Mylar layer 0.012 mm, bonded self adhesive, adhesive covered with Silicon paper	Sheet: 1000 x 1000 mm Roll length: 10 – 50 m Thickness: Roll: 0.38, 0.50, 0.76 mm Sheet: 1.00, 1.50, 2.00, 3.00 mm	A B C	yes / no	

Product	Description	Dimension (mm)	Graphite quality	Anti stick coating	Application
SML	Reinforced graphite laminate with Mylar insert 0.012 mm, bonded	Sheet: 2000 x 1000 mm 1000 x 1000 mm Roll length: 10 – 30 m Thickness: 0.76, 1.00, 1.50, 2.00, 3.00 mm	A B C	yes / no	
TSM	Reinforced graphite laminate with tang stainless steel insert 0.10 mm TA-Luft compliance (clean air act)	Sheet: 1000 x 1000 mm Thickness 1.00, 1.50, 2.00 mm	B	no	Gasket material for - TA-Luft applications - (clean air applications)

Specification

Klinger Graphite Laminate Type PDM...B

Laminate with 2 inserts for higher stiffness (better handling) and higher stress bearing capability. The graphite is also densified to further improve the handling and reduce the liquid absorption.

1.	Compressibility ASTM F36A	20 - 30 %
	Recovery	18 - 28 %
2.	Density of graphite	1.30 ± 5 %
3.	Leachable chloride content	max. 40 ppm
4.	Purity of graphite	min. 98 % carbon
5.	2 tang inserts	AISI 316, 0.10 mm
6.	Stress relaxation DIN 52913	min. 48 MPa
7.	Continuous service temp.	max. 450 ° C
8.	Thicknesses	1.00, 1.50, 2.00, 3.00 mm
9.	Thicknesses tolerance	± 5 % of nominal thickness
10.	Sheet size	standard: 1000 x 1000 mm

Other thicknesses and sizes on request.