



Compressed Gasket Materials



Klingerit® 3 x A



Klingerit Universal® 3 x A



Klingerit 1000®



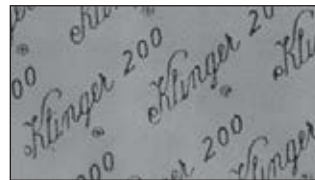
Klinger Oilit® 3 x A



Klinger Acidit®



Klingerit 100®



Klinger 200®



Klinger 80®

Type	Material Description	Operating Guidelines	(see note below*)
Klingerit® 3xA	Top quality for general purpose use and especially suitable for all steam conditions, compressed air and other gases, chemicals and organic compounds. Composed of SBR binder with long grade chrysotile asbestos fibre. Colour : Red/Brown.	Max. Temperature Max. Pressure	550°C 130 bar
Klingerit Universal® 3xA	Oil resistant material of the highest quality composed of long grade chrysotile asbestos fibre with NBR binder. Particularly suitable for use in the aviation industry and with hot oil and thermal fluids. Colour : Blue, (does not contain "blue" asbestos fibre) <i>Do not retorque fasteners at cryogenic temperatures</i>	Max. Temperature Max. Pressure Min. Temperature	550°C 140 bar -200°C
Klingerit 1000®	Top grade wire reinforced material for extreme service. Recommended for conditions of fluctuating pressure and temperature. Composed of chrysotile asbestos fibre bonded with SBR and reinforced with close mesh steel wire. Colour : Black graphite finish.	Max. Temperature Max. Pressure	550°C 200 bar
Klinger Oilit® 3xA	Top quality oil and petrol resistant material especially suitable for use with refrigerants. Composed of chrysotile asbestos fibre bonded with NBR. Approved by Water Research Council for use with portable water. Colour : Black <i>Do not retorque fasteners at cryogenic temperatures</i>	Max. Temperature Max. Pressure Min. Temperature	550°C 130 bar -200°C
Klinger Acidit®	High quality acid resistant material with a special binder. Widely used in the chemical industry. Suitable for ceramic and glass flanges. Colour : White	Max. Temperature Max. Pressure	150°C 20 bar
Klinger 100®	High quality material for the oil and petrochemical industries. Composed of chrysotile asbestos fibre with SBR. Colour : Grey <i>Do not retorque fasteners at cryogenic temperatures</i>	Max. Temperature Max. Pressure Min. Temperature	510°C 100 bar -200°C
Klinger 200®	Medium quality for general purpose use. Composed of chrysotile asbestos fibre bonded with SBR. Colour : Red/Brown	Max. Temperature Max. Pressure	400°C 40 bar
Klinger 80®	Medium quality for general purpose use. Contains chrysotile asbestos fibre bonded with SBR. Colour : Red/Black	Max. Temperature Max. Pressure	350°C 25 bar

* Note: Maximum temperature and pressure capabilities do not necessarily operate together for all gasket thicknesses and service conditions.

Thickness (mm)	0.4	0.5	0.8	1	1.5	2	2.5	3	4
Tolerances	size (m)			width (mm)			Length (mm)		
Nominal Sheet	1.5 x 2.0			1500			2000		
	1.5 x 1.0			1500			1000		





Technical Data

All data are typical values
* for sheet thickness
1.5 mm, 2 mm, 3 mm, 5 mm

A New Grade Medium Range
General Purpose Gasket Jointing

For Steam, Water and Gas Application
Colour : Red / Black

Standards : B.S. 1832 B.
IS 2712 1998 Grade W - 3
ASTM F 104 - 71 = SAE J 90 B . F 112 700
Please inquire for other standards

For temperature and pressure limitations please see pT graph. Max. Pressure (BAR)			25
		Max. Temperature Degree C	270
Maximum Permissible Gasket Loading	0.50 mm		70 N/mm ²
At 23 Degree C	1.50 mm		50 N/mm ²
	3.00 mm		25 N/mm ²
Compressibility			
ASTM F / 36 A / BS 2815	%		8
Recovery ASTM / 36 A	%		40
Stress Relaxation			
DIN 52913 , 50 N/mm ² 16 H / 300 degree C	N/mm ²		17
BS 1832 , 40 N/mm ² 16 H / 300 degree C	N/mm ²		14
Hot Compression Test , 25 N/mm²			
(Klinger Apparatus)			
Decrease in thickness	23 degree C	%	6
	300 degree C	%	9
Tensile Strength			
DIN 52910, CROSS GRAIN	N/mm ²		4
ASTM F 146, CROSS GRAIN	N/mm ²		8
Change in Tensile Strength			
ASTM F 146 After Immersion in Oil No. 3, 5 H/ 150 degree C	%		-50
Weight Increase			
ASTM F 146 After Immersion in FUEL B, 5 H/ 23 degree C	%		20
Increase in Thickness			
ASTM F 146 After Immersion in Oil No. 3 , 5 H/ 150 degree C	%		45
FUEL B , 5 H/ 23 degree C	%		30
Ignition Loss DIN 52911	%		24
Specific Gravity			
(Density) approx	gm/cm ³		2.15
Gas leakage DIN 3535/4	ml/min		3.00

* Note : Standard Stock

