

KLINGER

Gasket Selection Guide

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Picture	Colour	Construction	Application	Maximum Temperature	Maximum Pressure	
	Silver or Gold	KLINGER RTJ Manufactured from various steels.	A high integrity gasket with excellent high pressure, high temperature and chemical resistance. Used extensively in piping flanges.	-196 to 1000°C	500bar	*
	Green & Silver	KLINGER Maxiflex (Spiral) A semi-metallic gasket manufactured from a variety of steels and fillers.	A gasket with excellent pressure, temperature and chemical resistance. Very tolerant of cycling applications and misaligned flanges.	-196 to 1000°C	300bar	*
	Silver & Blk/Wht	KLINGER Maxiprofile (Kammprofile) A semi metallic gasket manufactured from a variety of steels and soft sealing faces.	A gasket with excellent pressure, temperature and chemical resistance. Used extensively in equipment girth flanges.	-196 to 1000°C	250bar	*
	Silver & Silver	KLINGER Double Jacket Metal clad gasket with non asbestos millboard, graphite or Mica filler.	A gasket with good pressure, temperature and chemical resistance. Used extensively in equipment girth flanges.	600°C	100bar	*
	Black & Black	Sigraflex® Hochdruck High-integrity multilayer laminate of exfoliated graphite and 316SS.	A high integrity sealing material with excellent thermal and chemical resistance. Used in chemical, petrochemical and power generation applications.	-250 to 450°C	250bar	
	Black & Black	KLINGER PSM Pure exfoliated graphite mechanically bonded to a tanged 316SS insert.	A sealing material with excellent chemical and thermal capabilities. Used in chemical, petrochemical, steam and chemical processes.	- 196 to 450°C	80bar	
	Black & Black	KLINGER SLS Pure exfoliated graphite chemically bonded to a solid 316SS insert.	A sealing material with excellent chemical and thermal capabilities. Used in applications where bolt load is limited or flanges are damaged.	- 196 to 450°C	50bar	
	Black & Black	KLINGER 104G A semi metallic gasket manufactured from corrugated stainless steel and soft sealing faces.	A gasket with good temperature and chemical resistance. Suitable for pressure up to 40 bar. Used extensively in piping flanges.	- 196 to 450°C	40bar	*
	Black & Black	KLINGER 108 (MRG) A semi metallic gasket manufactured from stainless steel and soft sealing faces.	A gasket with good temperature and chemical resistance. Suitable for pressure up to 40 bar. Used extensively as rectangular gaskets in fin fan exchangers.	- 196 to 450°C	40bar	*
	Grey & Grey	KLINGERTop-mic Manufactured from a blend of fibres and Mica with a nitrile binder.	A sealing material with outstanding flexibility and excellent sealability in steam. Resistance to oils, fuels, hydrocarbons and other chemicals.	-196 to 300°C	45bar	**
	Grey & Grey	KLINGERTop-graph 2000 Manufactured from expanded graphite and synthetic fibres with nitrile binder.	A sealing material with outstanding flexibility and excellent sealability in steam. Resistance to oils, fuels, hydrocarbons and other chemicals.	-196 to 300°C	60bar @ 100°C & 25bar @ 300°C	**
	Grey & Grey	KLINGERSil C4500 Manufactured from carbon fibres with a nitrile binder.	A sealing material with outstanding resistance to alkaline media and steam. Resistance to oils, fuels, hydrocarbons and other chemicals.	-196 to 250°C	60bar @ 100°C & 35bar @ 250°C	**
	White & Green	KLINGERSil C4430 Manufactured from synthetic and glass fibres with a nitrile binder.	A sealing material with high temperature resistance in steam, oils, fuels, hydrocarbons and other chemicals. Suitable for potable water.	-150 to 250°C	60bar @ 100°C & 35bar @ 250°C	**
	Green & Green	KLINGERSil C4400 Manufactured from aramid fibre with a nitrile binder.	A high quality, general purpose sealing material for use in many industrial applications. Excellent fluid swell and gas permeability properties. Suitable for use in vacuum applications.	-100 to 150°C	60bar @ 100°C & 35bar @ 175°C	**
	Grey & Green	KLINGERSil C4324 Manufactured from aramid and glass fibres with a nitrile binder.	An economical sealing material for use in general industrial applications. Resistance to oils, fuels, hydrocarbons, low pressure steam and water.	-50 to 150°C	60bar @ 50°C to 30bar @ 150°C	**
	Ivory & Ivory	KLINGERSil C8200 Manufactured from a blend of fibres with an acid resistant binder.	A sealing material designed for aggressive chemical environments. Resistance to acids, alkalis, ketones, aldehydes and refrigerants.	-25 to 100°C	60bar @ 50°C to 30bar @ 100°C	**
	Fawn & Fawn	KLINGER Statite Bitumen impregnated paper.	A low cost sealing material, used extensively in the automotive industry. Excellent resistance to oils and fuels.	120°C	8bar	
	White & White	KLINGERTop-chem 2003 Premium grade high compressibility stabilised PTFE.	A chemically resistant sealing material for strong acid and alkali applications with medium to low mechanical requirements at medium to low temperatures. For worn or damaged flanges.	-196 to 200°C	60bar @ 0°C to 0bar @ 200°C	
	Red & Red	KLINGERTop-chem 2005 Economical acid grade stabilised PTFE.	A chemically resistant sealing material for strong acid applications with high mechanical and temperatures requirements. Excellent creep/stress relaxation values.	-196 to 200°C	60bar @ 0°C to 40bar @ 250°C	
	White & White	KLINGER Hygrade LS Highly compressible biaxially expanded PTFE.	A soft flexible sealing material with high compressibility. Resistant to most chemicals. Ideal for use with glass-lined and enamel flanges.	-196 to 200°C	60bar @ 50°C to 10bar @ 200°C	

NOTE

A common misconception is that the suitability of a gasket for any given application depends upon the maximum temperature and pressure conditions. This is not the case. It is always advisable to consider flange quality, bolt load, bolt strength, chemical resistance, pressure, temperature, installation procedures, misalignment and any additional stresses such as fluctuating loads. All of the above may significantly affect the suitability of the gasket in the given application.

* Temperature rating is dependent on the correct selection of construction materials. | ** Steam temperature should not exceed 180°C.

