

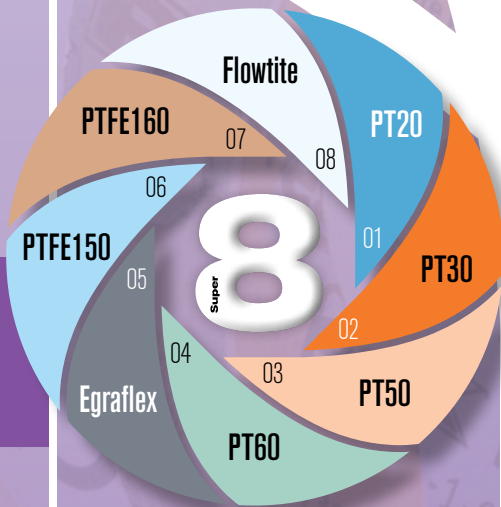
GASKETS TECHKNOWLEDGEY



Our Gasket Core Competence Centre has sealing all wrapped up. With products, materials, processes and application know-how and resources all available from one place – and supported by a nationwide network of 24/7 service centres – ERIKS really does offer a complete sealing solutions package.

Keeping it simple...

88 Original Material Types
Now fulfilled using only **8**



ERIKS look at the bigger picture and does everything to help keep your assets running longer and more efficiently.

Signed, delivered – sealed

Our expertise, resources and passion for technology ensure we do so much more than just provide the seal. We look at the bigger picture, and do everything we can to help keep your assets running longer and more efficiently, to reduce your maintenance downtime and help you achieve greater productivity from your process.

Industries Supplied:

- Power Industry
- Petrochemical Industry
- Offshore Industry
- Chemical Industry
- Food and Beverage Industry
- OEM Industry
- Many more...



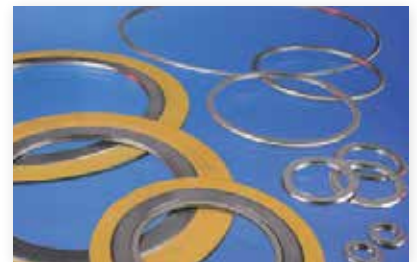
Kitting Services:

- For boiler manufacture/repair and power and electrical utilities
- Seals, gaskets & sundries logically packed for ease of assembly
- Private branding logos on the backing boards



SealTEC Metallic:

- Spiral wound gaskets
- Ring type joints
- Camprofile gaskets
- Elastograph gaskets



CASE STUDY

Gaskets

Spiral Wound Gasket Preventing fire hazard through Blowout



Issue

The client (a coal fired power station) was using general duty non asbestos fibre gaskets on a fuel oil system. Although the temperature was not excessive, it did fluctuate and the high pressure involved resulted in gasket blowout occurring which then resulted in a fire causing damage and shut down which ran at an estimated £200k per day.

Solution

ERIKS Gasket Technology advised that a Stainless Steel style Spiral Wound gasket would be a more effective solution due to its high blowout resistance. The customer replaced the gaskets on all pump, valve and pipework applications to ensure protection from further blow outs.



Other Benefits

- Rapid supply of replacement gaskets reduced downtime
- Eliminating the fire hazard and all leaks

Further Comments

The customer has experienced no further leakage since the solution was installed and there is now no potential fire hazard.

Reduce your maintenance costs & increase plant reliability

XP novaphit® with XP technology

The first graphite gasket that is easy to remove from the flange

Long-term non-stick properties throughout the application temperature range from -200°C to +550°C:

- Time and money are saved in maintenance operations thanks to fast gasket replacement without any residue
- Higher plant reliability and less downtime, because the sealing surfaces do not need to be cleaned mechanically and are not therefore damaged

Higher oxidation resistance:

- More stable long-term sealing properties
- Consistently low leakage



ERIKS Unique **Super 8**

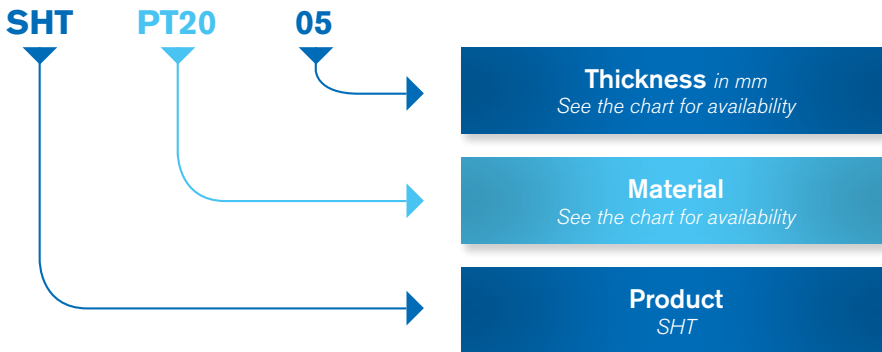
Super 8 jointing materials can fulfil all of your sealing requirements
Supplied as complete sheets or cut gaskets

Gasket Selection Chart

Maximum Operating Temperature Degrees C	150	+250 (200-Steam)	+200	+250	+450	-210 +260	-210 +260	-240 +230
Maximum Pressure Bar	60	100	85	100	1400	1500	1600	230
Super 8 Choice	01 PT20	02 PT30	03 PT50	04 PT60	05 Egraflex	06 PTFE150	07 PTFE160	08 Flowtite
Air	Y	Y	Y	Y	Y	Y	Y	Y
Steam		Y	Y	Y	Y			Y
Oxygen							Y	Y
Oil	Y	Y	Y		Y			Y
Solvent				Y	Y	Y	Y	Y
Petrochemical Products					Y			Y
Potable Water		Y	Y	Y		Y	Y	Y
Weak Acid	Y	Y	Y	Y	Y	Y	Y	Y
Strong Acid						Y		
Weak Alkali		Y	Y	Y	Y	Y	Y	Y
Strong Alkali						Y	Y	
Food Stuffs		Y	Y	Y		Y		Y
General Duty	Y	Y	Y	Y	Y	Y	Y	Y

GASKETS

Part Number Identifier



Example

SHTPT2005 0.5mm thick PT20 sheet
SHTFLOW15 1.5mm thick Flowtite sheet

Material	Code	Thicknesses available in mm					
		0.5	0.8	1	1.5	2	3
PT20	PT20						
PT30	PT30						
PT50	PT50						
PT60	PT60						
Egraflex	EGRA						
PTFE 150	P150						
PTFE 160	P160						
Flowtite	FLOW						

All sheets are available at 1.5mtr sq as standard

Fibre Sheet Jointing

General Grade Non-Asbestos Gasket Materials

01 PT20

PT20 is a composite of mineral and aramid fibres with NBR binders. Suitable for use in low pressure applications, in a wide range of non-aggressive media.

BS7531 Grade Y

For use with water, steam and gases at temperatures up to 200°C and for oil, solvents and inert liquids at temperatures up to 350°C.

02 PT30

PT30 is a high quality, sheet jointing comprising of a mixture of polyaramid and inorganic fibres, bonded with a NBR binder. It is a general purpose gasket material, suitable for hot and cold water, steam, oil, fuel, gases and other general duties.

03 PT50

PT50 is an aramid based sheet jointing. Suitable for general purpose low temperature applications.

BS7531 Grade X

A Premium Grade Non-Asbestos Gasket Materials

For use with water, steam and gases at temperatures up to 250°C and for oil, solvents and inert liquids at temperatures up to 440°C.

PT60 is our premium quality, private brand sheet jointing, comprising of glass

04 PT60

and aramid fibres, bonded together with a NBR binder. It is a general purpose, medium pressure rated gasket material and an excellent choice for general chemical applications.

Graphite Laminates

A semi-rigid laminated material manufactured from high purity exfoliated graphite reinforced with nickel or stainless foil or tanged stainless steel. It is suitable for sealing against steam and most other media with the exception of strongly oxidising reagents. General material grades available from ERIKS Gasket Technology include:

05 Egraflex

Egraflex is a Graphite Laminate sheeting reinforced with a Tanged 316 stainless steel insert.

A universal material for (petro)chemicals. Used in high pressure and high temperature applications. Recommended for applications involving high sealing stresses and where high blowout resistance is required. The inclusion of the steel reinforcing layer gives rise to a robust sheet. Can be used to seal a wide range of media, with the exception of strong oxidising agents, at extremes of temperature and pressure.

Composite PTFE Products

Modified PTFE Materials

Composite PT150 and PT160 are a PTFE-based group of products capable of sealing chemicals right across the 0–14pH range, at temperatures from cryogenic to 260°C and at pressures from 85 bar down to vacuum. Typified by low creep, sustained service capability and robustness and has numerous advantages over many alternatives including pure and filled PTFE and envelope gaskets.

06 PTFE150

Blue Modified PTFE sheeting. High performance biaxially orientated sheet sealing material containing PTFE with hollow glass micro spheres. Excellent resistance against

cold-creep and very gas tight. Seals with low bolt force. Universal chemical resistance and can be used for several flange materials: steel, plastic, glass and ceramic lined.

07 PTFE160

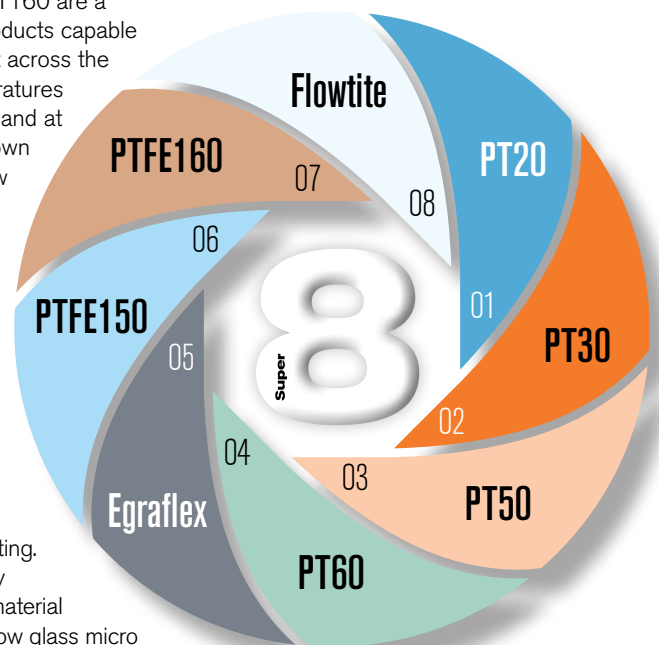
Pink Modified PTFE sheeting. High performance biaxially orientated sheet sealing material containing PTFE with silica filler. Excellent resistance against cold-creep. Universal quality for (petro) chemical applications, acids and gases.

Expanded PTFE Sheet

08 Flowtite

100% multidirectional expanded PTFE sheet, minimum of cold-creep, high gas permeability. Universal chemical resistant, pH 0-14, excellent on rough or damaged flange surfaces.

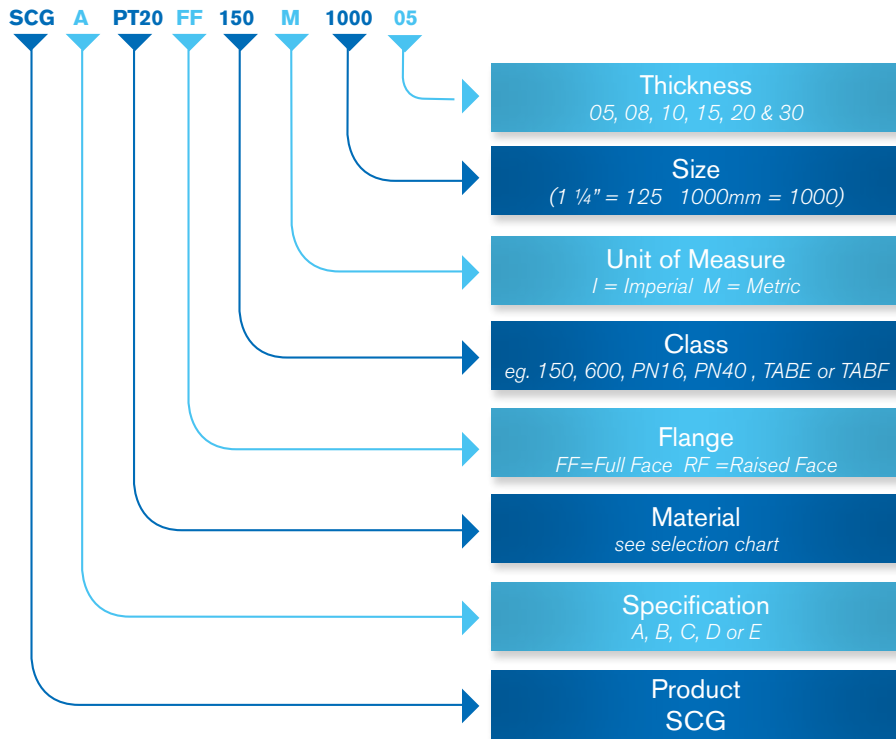
- WRc
- TA-Luft
- Blow-Out-Test VDI 2200
- FDA
- USP Plastic Class VI
- Germanischer Lloyd
- BAM
- AREVA



Soft Cut Flange Gaskets

As one of the UK's leading gasket manufacturers ERIKS Gasket Technology can offer a tailored fast service for Soft Cut Flange Gaskets. Encompassing materials from PTFE, non-asbestos fibre and high temperature sheeting through to graphite, ERIKS Super 8 range provides a complete product portfolio that can be selected to suit your application.

Part Number Identifier



Specification	Class
A B16.21	150, 300, 600, 900 & 1500
B B16.47 A	150, 300, 600 & 900
C B16.47 B	150, 300 & 600
D DIN	PN6, PN10, PN16, PN25 & PN40
E TABLE/BS10	TABA, TABD, TABE, TABF, TABH TABJ, TABK, TABR & TABS

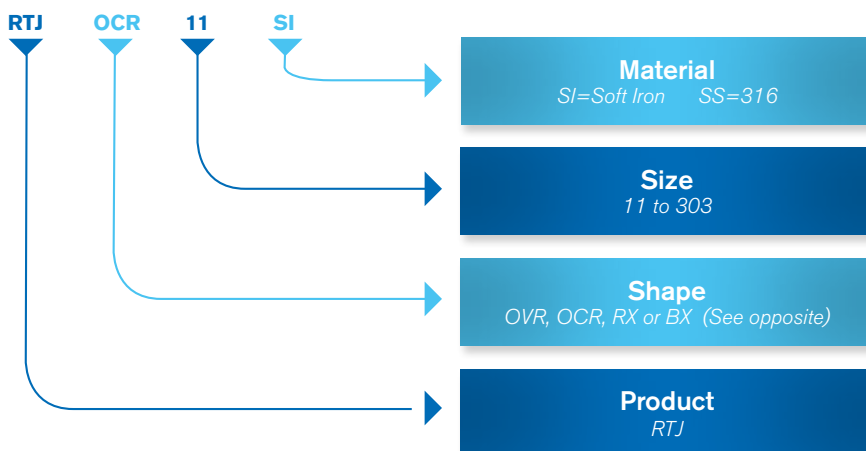
Material	Code	Thicknesses available (in mm 05 = 0.5mm / 30 = 3mm)					
		05	08	10	15	20	30
PT20	PT20						
PT30	PT30						
PT50	PT50						
PT60	PT60						
Egraflex	EGRA						
PTFE 150	P150						
PTFE 160	P160						
Flowtite	FLOW						

Example: Metric = SCGDPT60FFPN25M100015
Imperial = SCGAPT20RF1500I12530

Ring Type Joints

Ring joint gaskets are used primarily in the up-stream oil and gas industries where high pressures are often encountered.

Part Number Identifier



- Manufactured to API 6A and ASME standards
- Standard materials are soft iron and 316 stainless steel
- Available in a range of styles

Example: RTJOCR11SI
RTJRX303SS

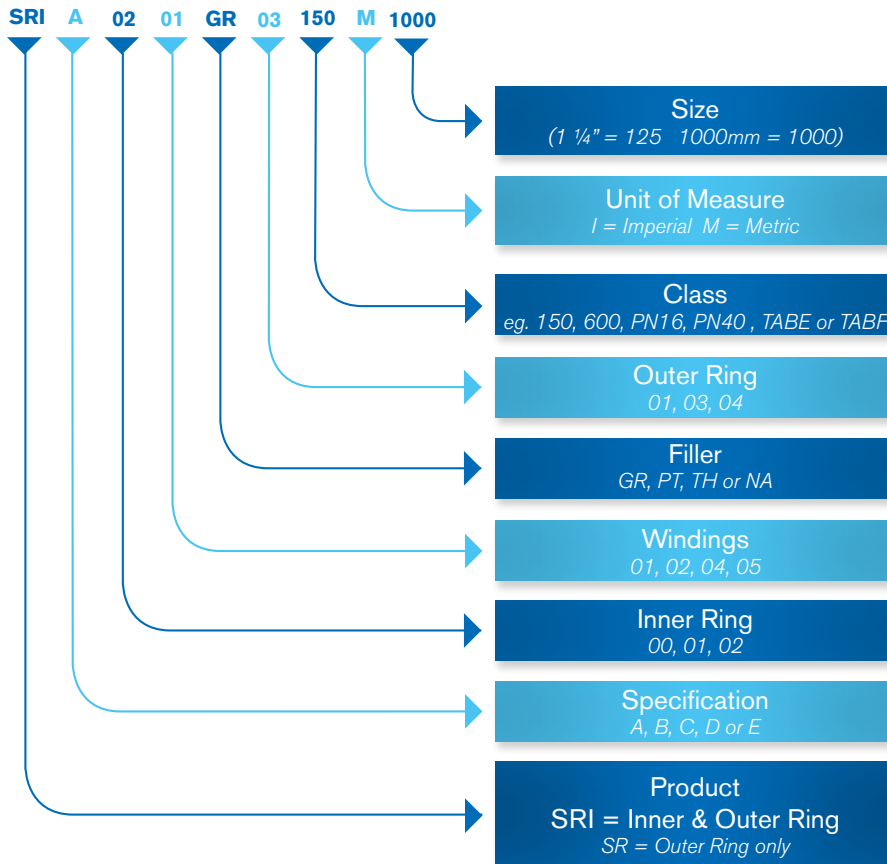
GASKETS

Spiral Wound Gaskets

A comprehensive stock of SWG manufactured in accordance with ASME B16.20 is available for immediate delivery. Spiral wound gaskets are used for high pressure and temperature applications. ERIKS has a selection in all conceivable models and in various materials. In addition, special gaskets can be made quickly in our own production facility.

All SR and SRI gaskets for these standard flanges are 0.175" (4.5mm) thick, fitted with 0.125" (3.2mm) thick solid metal rings, unless otherwise stated.

Part Number Identifier



Example:

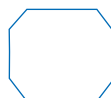
Imperial SRIA0101GR03600I125
Metric SRD0002PT03PN40M1000

Specification	Class	Windings & Rings	Filler
A B16.50	150, 300, 600, 900 & 1500	00 No ring	GR Graphite
B B16.47 A	150, 300, 600 & 900	01 316	PT PTFE
C B16.47 B	150, 300 & 600	02 316L	TH Thermiculite
D DIN	PN6, PN10, PN16, PN25 & PN40	03 Carbon Steel	NA Non Asbestos
E TABLE	TABA, TABD, TABE, TABF, TABH TABJ, TABK, TABR, TABS	04 304	
		05 304L	

Ring Type Joint Styles

Style R

Octagonal Section - For use with ASME and API flanges with flat bottomed groove



Style RX

Asymmetric Octagonal Section - For use in ASME and API flat bottomed grooves



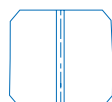
Style R

Oval Section - For use with ASME and API flanges with flat bottomed or oval groove



Style BX

Square Octagonal Section - For use in API BX flanges



Camprofile

Semi-Metallic Gaskets

The Camprofile offers a safe, effective seal under the most exacting conditions on both standard pipework and specialist applications. The Camprofile gasket offers excellent flexibility and recovery characteristics, allowing seal integrity under pressure and temperature fluctuations, temperature differential across the flange face, flange rotation, bolt stress relaxation and creep.

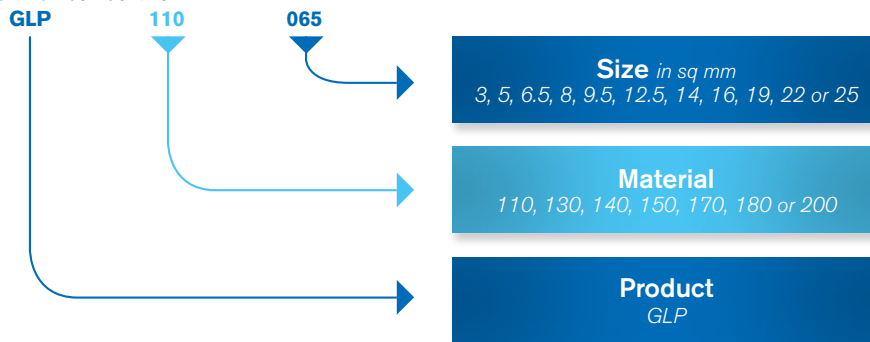


Gland Packings

Material Grades

ERIKS Gasket Technology is able to supply a comprehensive range of material grades to suit your specific needs. In addition, we also stock a wide range of extraction tools.

Part Number Identifier



All coils are generally supplied at 8mtrs in length
Example: GLP140125 GLP200050

Material	Application
110	Cost effective cotton fibre gland packing with graphite and lubricated
130	Graphite/PTFE with aramid in corners reinforced braided with a silicone rubber core
140	Twisted fibreglass and impregnated with a composite inc. a high percentage of graphite with lubricant
150	General use twisted fibreglass gland packing impregnated with PTFE and silicone lubricant
170	Braided PTFE filament, also impregnated with PTFE dispersion and additional lubricants
180	Braided and manufactured from expanded graphite yarn with an exceptionally high carbon content
200	Extremely hard wearing gland packing with aramid fibres, braided and impregnated with PTFE

High Temperature Materials

High temperature gaskets for extreme applications and environments.

Frenzelit NovaMICA® Thermex

NovaMICA Thermex is a brand-new gasket material based on processed phlogopite mica resistant to continuous temperatures of up to 1000°C.

Suitable for extreme thermal and mechanical applications, especially exhaust.

- Extremely high temperature stability (up to 1000 °C)
- Low long-term leakage even at high temperatures due to the expanded metal insert
- Reliable handling
- Smooth processability by all standard manufacturing processes



Leader Gaskets

Leader Global Technologies brings you a wealth of product and market place experience as well as the most cost effective sealing solutions. Founded over 100 years ago, Leader GT has led the industry in fluid sealing and gasket manufacturing technology.

As the original designer and developer of the compressed sheet manufacturing equipment, Leader GT continues to develop leading edge gasket and packing solutions. These technologies include the "Patented Dynagraph™ Process", Elastagraph™, Graphite and Corrugated Metal Gasket, CW 2000 High Temperature Packing and many other technology driven fluid sealing products. Leader GT continues to be the fluid sealing technology leader that you can count on.



Sealing Products

- Thermal Insulation
- High Temperature Papers/Felts
- Ropes and Tape Products Rubber Mouldings
- Cellular Sponge Materials

