

FLUID
SEALING
SOLUTIONS
WORLDWIDE





Packing rings and packing accessories

style
filament
impregnation
lubricant

bar rot.
bar osc.
bar stat.
m/s v
°C –
°C +
°C steam

pH value
density: app. g/cm³

water
steam
neutr. solutions
highly diluted acids
concentrated acids
highly concentrated acids
diluted alkalis
concentrated alkalis
inert gas
acidic gas
hydrogen
oxygen
volatile hydrocarbon
solvents
amines, nitriles
mineral oil, grease
synth. oils
abrasive media
bitumen
paints, varnishes

approvals²⁾



Sets of PACKING-RINGS

Teadit produces preformed packing rings from the whole range of braided Teadit packings. Available in all dimensions, combination of different packings possible, both with 45° or 90° cuts.

Set with TA-Luft approval is available, details on request.

Sets of pure GRAPHITE-RINGS

Made from pure graphite tape in 98% or 99.85% purity. If found necessary, anti-extrusion rings made from braided graphite or carbon yarn can be included in a set (top and bottom). Such combinations offer excellent sealability and high pressure resistance.

Packing cutter (45° cut)

Facilitates cutting of braided packings. Available in two different lengths.

- no wrong cuts - no wastage
- precise 45° cut for respective shaft diameter
- very handy and easy to use

Packing extractors

These special tools are recommended for removing used packing rings from the stuffing box.

- easy to use
- reliable
- fast



Expanded graphite

TEADIT GP 1520	TEADIT GR 1520 / GE 1520	TYPE
Graphite sheet	Graphite sheet with plain (GR) or tanged (GE) metal insert	Composition
—	—	Approvals
black	black	Colour
1,0 g/cm	—	Density
—	—	Tensile Strength
> 40 %	40 · 50 % / 30 · 40 %	Compressibility
> 10 %	10 · 25 % / 15 · 30 %	Recovery
—	—	Leakage (TA Luft)
450 (steam up to 650°C)	450 (steam up to 650°C)	max. Temperature
30 bar	70 bar / 140 bar	max. Pressure
> 98 %	> 98 %	Carbon
< 30 ppm	< 30 ppm	Chloride
< 1000 ppm	< 1000 ppm	Sulphur

Description:

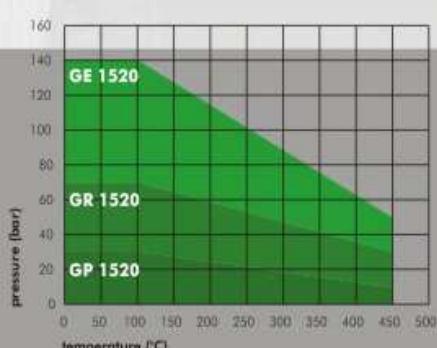
TEADIT expanded graphite sheets are produced from pure, expanded flexible graphite and do not contain any other fibers or filler materials. Because of their specific structure expanded graphite sheets are particularly suited for applications with extremely high or low temperatures, with highly corrosive and aggressive media, for sensitive flange materials (i.e. ceramic, glass, plastic) and for gas as well as steam applications.

Advantages:

- universally applicable for gases and fluids
- chemically resistant, against most media
- excellent thermal conductivity
- can be stored indefinitely
- do not need antistick coating
- extremely resistant to temperature cycles

Dimensions:

1000 x 1000 mm
1,0 / 1,5 / 2,0 / 3,0 mm





Kammprofile gaskets

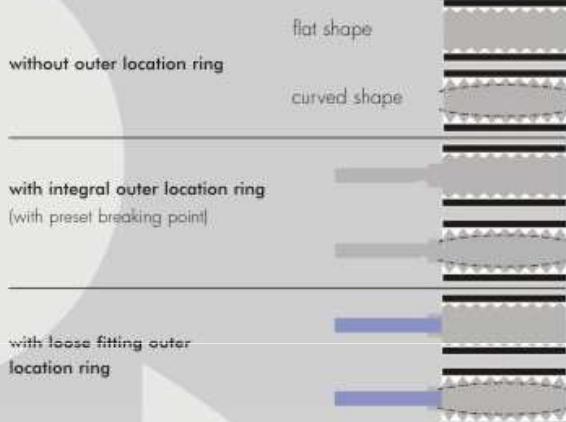
TEADIT® Kammprofile gaskets offer outstanding flexibility and recovery, assuring seal integrity under pressure and temperature fluctuations, flange rotation, bolt stress relaxation and creep.

Kammprofile gaskets are constructed from a precision serrated metallic core with soft gasket materials - either flexible graphite or expanded PTFE bonded to either side.

Depending on kind of metal used, TEADIT® Kammprofile gaskets can be used for all media from pH 0 to 14.



TEADIT® Kammprofile gaskets can be delivered in different styles and qualities:



Materials for sealing face:

ePTFE: up to 260°C (500°F)
graphite: up to 450°C (842°F)
up to 650°C (1,200°F) with steam

Spiral-wound gaskets

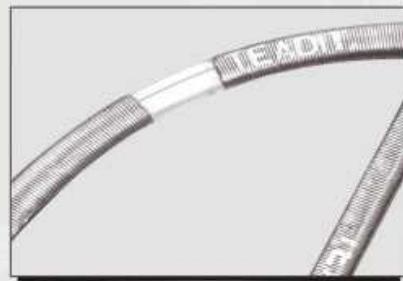
For applications with high temperature variations (thermal cycling), and/or pressure variations, and/or flange rotation problems etc. gaskets with adequate residual stress (stress retention), flexibility and recovery are needed. TEADIT® spiral-wound gaskets have been designed to meet these demanding requirements.

Spiral-wound gaskets are made of a preformed metallic strip and a soft filler material (PTFE or graphite), wound together under pressure, and optionally with an inner and/or outer guide ring. The metal strip holds the filler, resulting in excellent mechanical resistance, resilience and recovery.



Filler material:	max. temperature°C (°F)
PTFE	260 (500°F)
Graphite	450 (842°F)

* up to 650°C (1,200°F) with steam and under inert conditions.



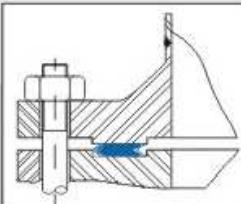
Double Jacketed style 923, 927

Double Jacketed gaskets with graphite coating

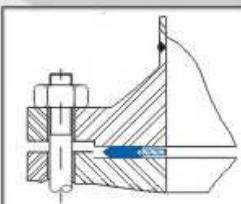
GASKETS



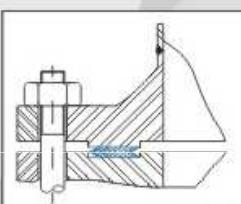
Spiral wound gaskets Types and Profiles

**911**

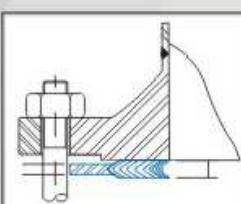
This is the simplest style of spiral wound gasket, consisting of a circular winding without guide or inner rings. Spiral wound gaskets Style 911 are mainly used in tongue and groove or male and female flanges. They are also used in equipment with space and weight limitations. Special flange machining may be necessary (contact Teadit Technical Dept.).

**911M**

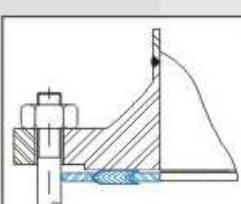
A style 911-M gasket is a sealing winding with an inner ring. The purpose of this ring is to fill out the space between the flanges, avoiding turbulence in the flow of the fluid or as a protection against corrosion or erosion. It is also used as a compression limit.

**911T**

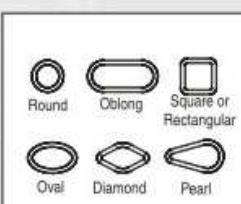
Double jacketed bars are welded into the winding. They are used in shell and tube heat exchangers with several passes. The bars are manufactured in the same material and are welded to the winding. The thickness of the bar is normally a little less than the winding to reduce the sealing force of the gasket. Style 911-T has a better sealability than conventional heat exchanger double-jacketed gaskets. However a specially machined groove with an appropriate compression stop is needed for 911-T.

**913**

The construction of this gasket is circular metal windings with an outer guide ring. The sealing element is made of the specified metal and sealing material. The standard pipe size gaskets are made to the ASME B 16.20 (see also style 913M). These gaskets are used in a very wide variety of applications.

**913M**

The 913M is the standard spiral wound gasket with an inner ring. The purpose of this ring is to fill out the space between the flanges, avoiding turbulence in the flow of the fluid or as a protection against corrosion or erosion. It is also used as a compression limit. Gaskets with PTFE filler have a tendency to inward buckle thus the use of an inner ring is required by ASME B16.20. Inner rings are also required with ASME standard spiral wound gaskets with flexible graphite fillers unless the purchaser specifies otherwise. Some size and pressure class require inner rings regardless of filler material.

**914**

Style 914 spiral wound gaskets are windings in non-circular forms like oval, rectangular and square with rounded corners, diamond, oblong or pearl shaped. Style 914 gaskets are used in boiler handholes and manholes, equipment, engine head-gaskets and exhaust systems. Inner rings should also be used for many of these applications.

HEAT EXCHANGERS



Gaskets for Heat Exchangers

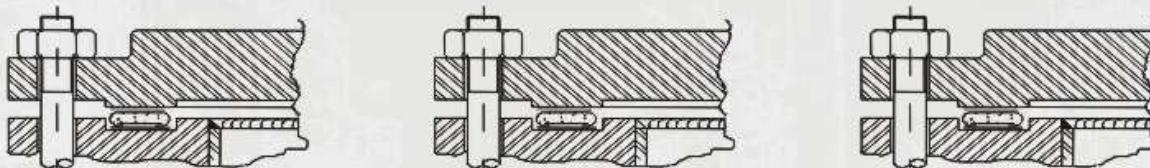
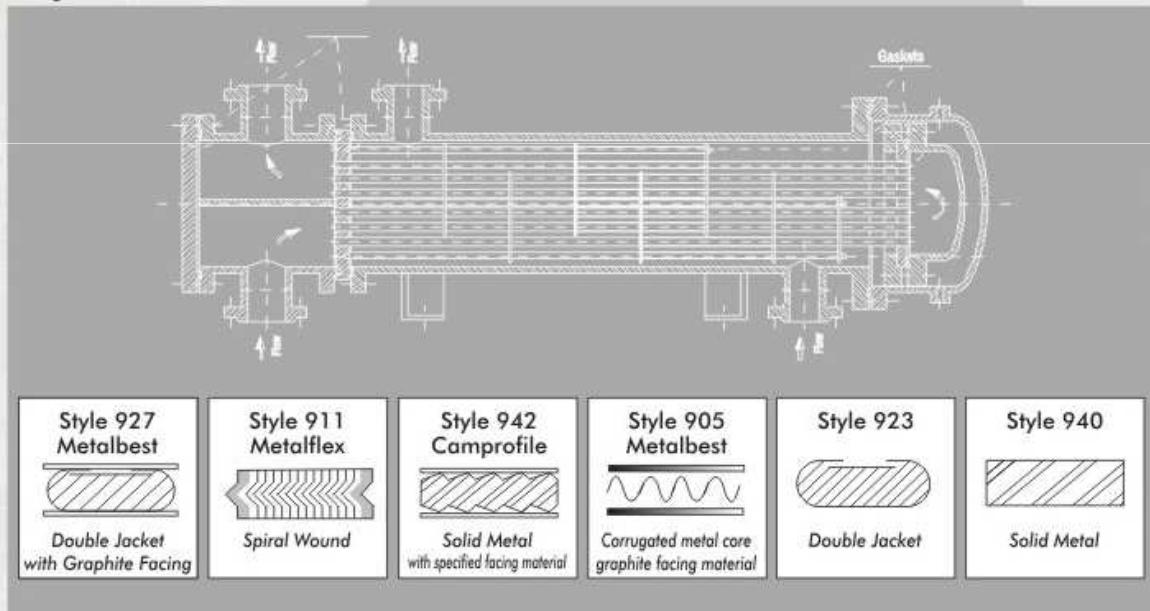
There are several types of Heat Exchangers, some of them so incorporated in our life style that we hardly notice them, like car radiators or home heating units. All of them transfer heat from one fluid to the other, cooling (radiator) or heating (home heating), according to the process needs.

In industry, there are several types of Heat Exchangers, some have specific names like radiators, boilers, chillers, etc.. However, when we refer to a Heat Exchanger generically, we may be referring to any of them. However, the term Heat Exchanger, in most process industries is referred to as the "Shell and Tube Heat Exchanger". As the name implies, it is equipment that has a "shell" and a bundle of "tubes". One of the fluids flows inside the shell and outside the tubes and the



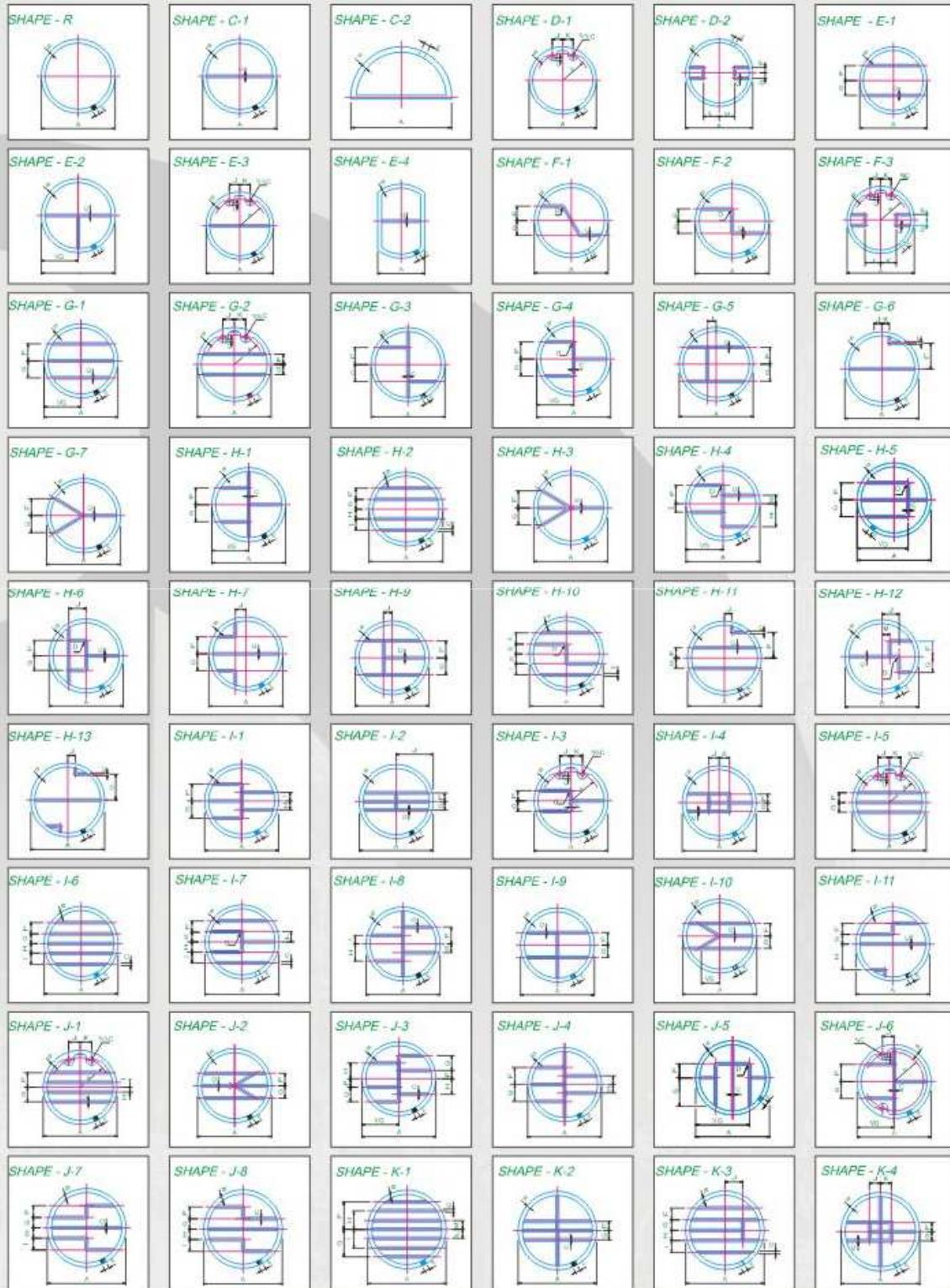
The great majority of the Shell and Tube Heat Exchangers are manufactured following the recommendations of the "Standards of the Tubular Exchanger Manufacturers Association TEMA", which sets the guidelines for design, construction, testing, installation and maintenance of this equipment.

Design



Properties and application parameters shown throughout this data sheet are typical. Your specific application should not be undertaken without independent study and evaluation for suitability. For specific application recommendations consult TEADIT. Failure to select proper sealing products could result in property damage and/or serious personal injury. Specifications are subject to change without notice; this edition cancels all previous issues.

GASKET FOR HEAT EXCHANGERS





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