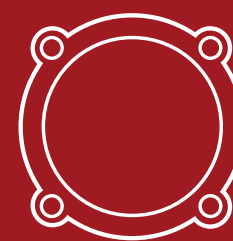




**A QUICK GUIDE
TO SPECIFYING**

HEAT EXCHANGER GASKETS

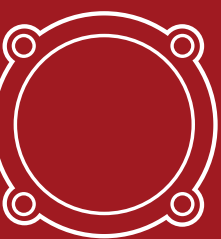


FUNCTIONS OF A HEAT EXCHANGER GASKET

A heat exchanger gasket may perform several functions:

- ▶ **Peripheral sealing** prevents external leakage
- ▶ **Pass-bar sealing** separates and directs individual flow passes
- ▶ **Plate-channel sealing** keeps the hot and cold circuits apart

Correct geometry is essential for preventing both leakage and cross-contamination.



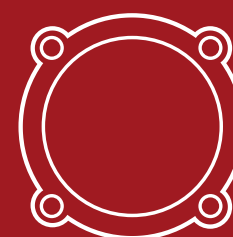
PRINCIPAL HEAT EXCHANGER

GASKET TYPES

METAL-JACKETED

A metallic jacket surrounding a compressible filler. Well suited to shell-and-tube heat exchangers requiring rings, narrow sealing widths or complex pass-bar configurations.

They require sufficient, evenly distributed seating stress and sealing faces in good condition.



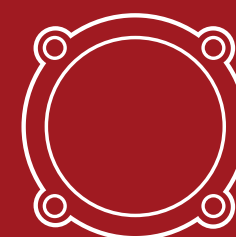
PRINCIPAL HEAT EXCHANGER

GASKET TYPES

CAMPROFILE/KAMMPROFILE

A serrated metal core with graphite or PTFE facings, combining load stability with surface conformity.

Suited to demanding shell-and-tube applications involving elevated pressures, temperatures or thermal cycling, subject to the core and facing materials selected.



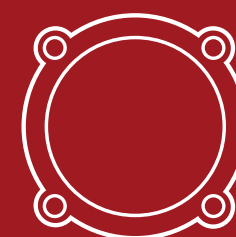
PRINCIPAL HEAT EXCHANGER

GASKET TYPES

PLATE-AND-FRAME

A moulded elastomeric gasket matched to the plate. Suited to plate heat exchangers used in HVAC, food processing and other liquid-to-liquid duties.

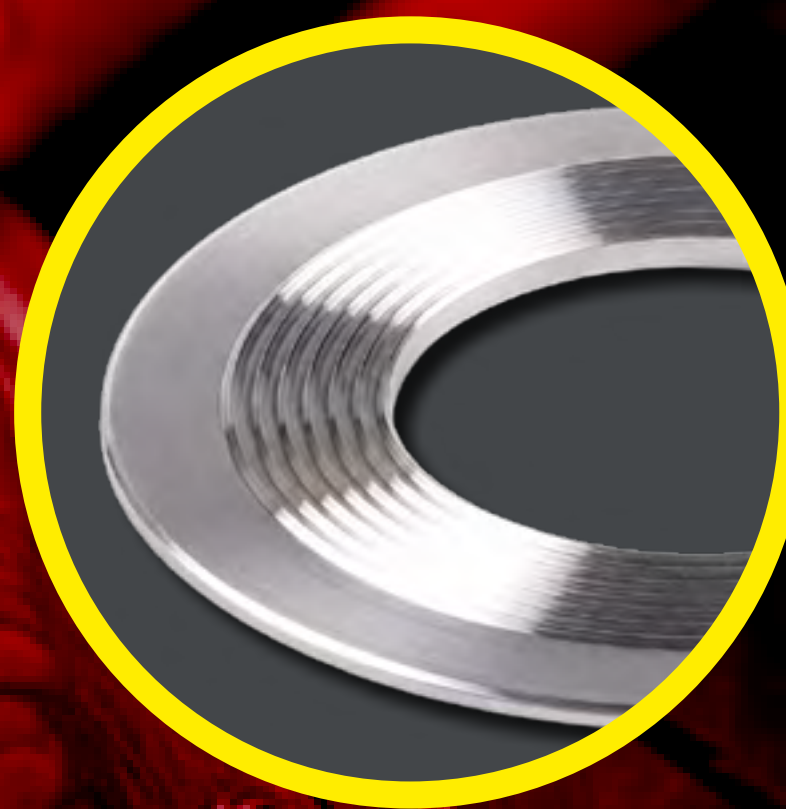
The elastomer must be compatible with both process fluids, cleaning chemicals and operating temperatures.



MATERIAL CONSTRUCTION

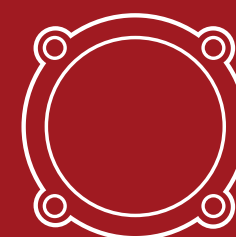
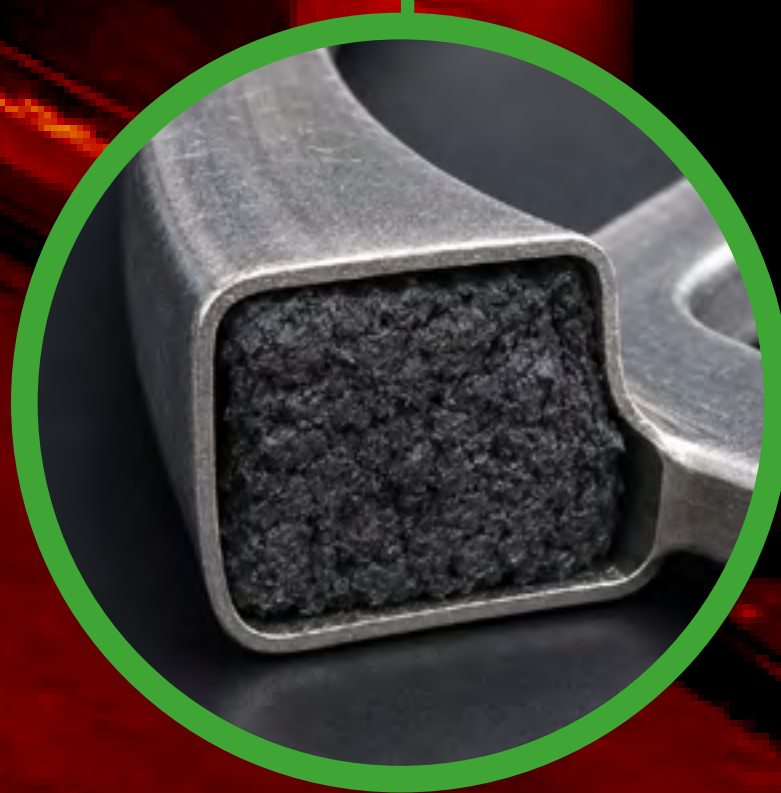
METAL COMPONENTS PROVIDE

- ▶ Structural strength
- ▶ Load stability
- ▶ Temperature and corrosion resistance



FILLERS & FACINGS PROVIDE

- ▶ Surface conformity
- ▶ Chemical resistance
- ▶ Sealability under compression

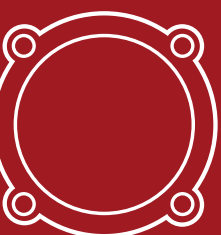


FIVE SELECTION FACTORS

Specify the gasket against

- 1 Exchanger type & sealing position**
- 2 Media on both sides of the exchanger**
- 3 Operating & design temperature**
- 4 Operating & design pressure**
- 5 Flange condition, bolt load & thermal cycling**

A material's maximum temperature is not the operating limit of the finished gasket.





**dobson
gaskets:**

THE HEAT EXCHANGER GASKET EXPERTS

Dobson Gaskets works with engineers to specify heat exchanger gaskets with the appropriate construction, materials, dimensions and pass arrangement.

TALK TO OUR TEAM

(+44) 01535 607257

sales@dobsongasket.com

www.dobsongasket.com

