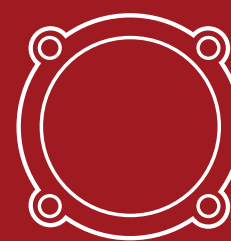




**A QUICK GUIDE
TO SPECIFYING**

HEAT EXCHANGER GASKETS

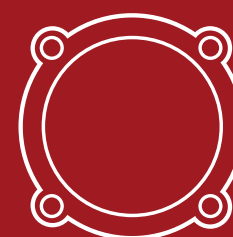


FUNCTIONS OF A HEAT EXCHANGER GASKET

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.



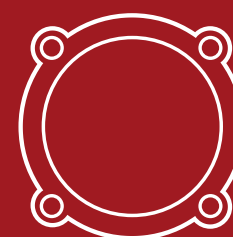
PRINCIPAL HEAT EXCHANGER

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.



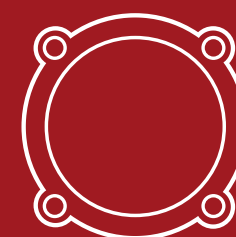
PRINCIPAL HEAT EXCHANGER

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.



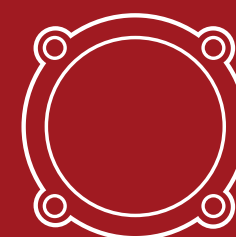
PRINCIPAL HEAT EXCHANGER

GASKET TYPES

HEADER GASKETS

Header gaskets seal the joint between a heat exchanger's header and removable cover, preventing process fluid leakage.

Manufactured to suit the sealing face and bolt pattern, they require accurate profiles and material selection matched to the operating temperature, pressure and media.



MATERIAL CONSTRUCTION

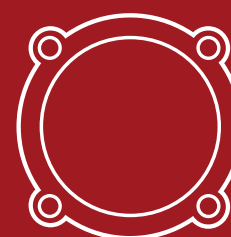
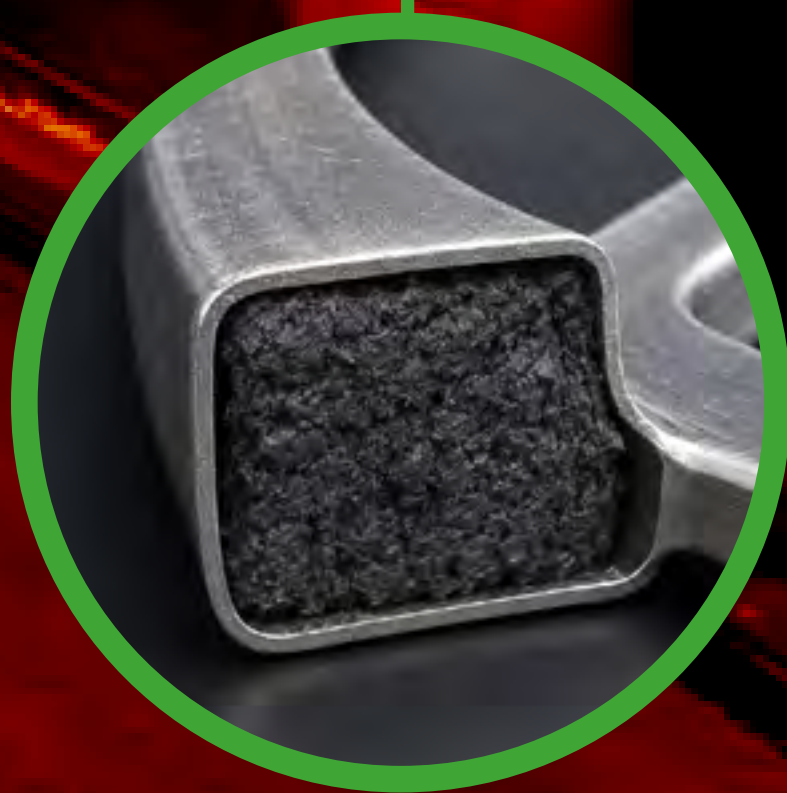
METAL COMPONENTS PROVIDE

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



FILLERS & FACINGS PROVIDE

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

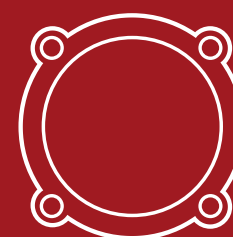


FIVE SELECTION FACTORS

Specify the gasket against

- Exchanger type & sealing position
- Media on both sides of the exchanger
- Operating & design temperature
- Operating & design pressure
- 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.

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