

W O R L D W I D E



Novus Sealing and our distributors are fully committed to ensuring our customers throughout the world receive the highest level of quality and technical support for our products and services. Our technical specialists can provide expertise on all issues associated with sealing performance.



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## Metal Jacketed Gaskets



Manufacturers and distributors of sealing and jointing materials.

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**Metal Jacketed Gaskets**

Metal jacketed gaskets consist of a metal cover and a 'soft' sealing material filler.

The sealing filler provides outstanding resilience, while the metal jacket guarantees excellent sealing and protects the filler against pressure conditions, fluctuating temperatures and corrosion.

A wide variety of materials are available to guarantee excellent sealing. The metals listed on the opposite page are standard, other metals are available on request.

This type of gasket is being replaced by either Camprofiles (see page 3-6) or corrugated metal products (see page 13-14).

**Welded Metal Jacketed Gaskets**

Welded metal jacketed gaskets are manufactured in a wide range of sizes and styles.

Generally they are used in **Heat Exchangers, Vessels, Pumps, Autoclaves, Engines, Valves, and Exhaust Systems.**

Metal jacketed gaskets require machined flange faces, high bolt loads and exact flange alignment to ensure an effective seal. It is for this reason that Novus recommend the use of Camprofile or Corrugated Metal Gaskets for heat exchanger applications.

One-piece



Welded



Welded bar metal jacketed gaskets offer the following benefits over one-piece gaskets with integral bars

**Lower price** - Typical cost savings 10% to 40% (depending on material).

**Quicker delivery** - Less time to manufacture.

**Technically superior and safer** - Extra sealing safeguards give a better gasket.

**Longer sealing life** - Bars seal independently of the outer ring.



**Gasket Profiles**

Metal jacketed gaskets can be produced in a variety of styles. The diagram below shows the standard range of shapes for vessels and heat exchangers.

When ordering metal jacketed gaskets with pass-partition bars, a drawing with the exact dimensions and positions is required.

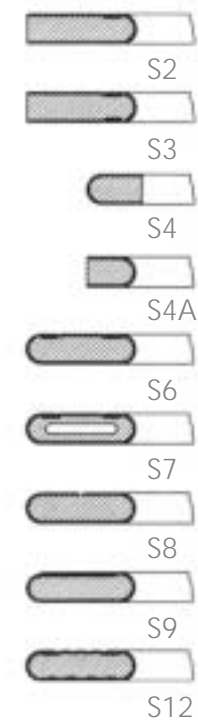
**Flange Surface Finish**

We recommend a maximum flange surface finish of 1.6um.

**Jacket material:**

- Stainless Steel
- Aluminium
- Copper
- Brass
- Titanium
- Silver
- Carbon Steel
- Soft Iron
- Monel
- Inconel
- Incoloy
- Nickel
- Hastelloy

**Profiles**



**Filler materials:**

- Non Asbestos Millboard
- PTFE
- Uniflon
- Graphite

**Standard Metals**

- Aluminium
- Copper
- Stainless Steel
- Monel
- Nickel
- Hastelloy

**Standard Metals**

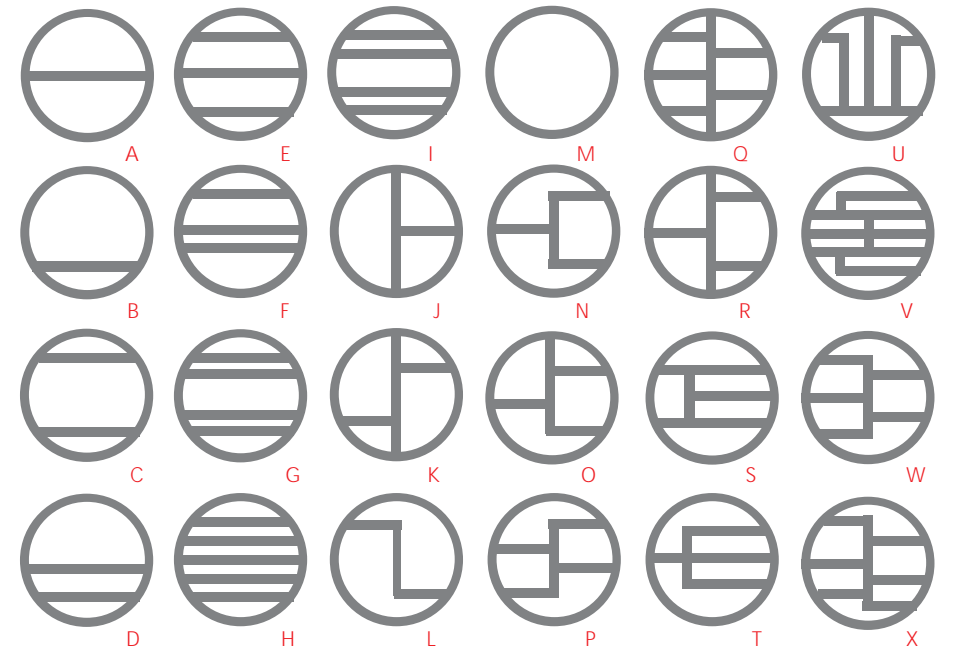
- Soft Iron
- Brass
- Inconel
- Incoloy
- Silver
- Titanium

**Standard Fillers**

- PTFE
- Non-asbestos Millboard
- Graphite

**Standard vessel and heat exchanger profiles**

The illustrations represent standard Novus spiral wound gasket shapes for vessel and heat exchanger flanges.



**Type S6 Seating Stress**

Seating Stress (20°C)		
Minimum (N/mm²)	Optimum (N/mm²)	Maximum (N/mm²)
80	110	180

**How to Order**

A correct purchase order should contain the following information.

1. Type of the Metal Jacketed gasket required
2. Standard of the gasket (flange standard)
3. Nominal size and pressure class
4. Material - Jacket and Filler

**Example**

Novus Metal Jacketed Type S6  
 Dimensions: ASME B16.20  
 2" 150lbs  
 SS316, Non-asbestos Millboard