# PLANISTEEL MJ

## Composition

- **Cladding material**: all types of steels and alloys
- **Available filler material**:
  - flexible graphite (standard filler)
  - PTFE
  - ceramic

## Characteristics

**Planisteel MJ** metal-jacketed gaskets offer many advantages:

- good sealing performance even with moderate tightening loads
- dimensional stability over time
- compatibility with numerous fluids (gases, vapours, oils, chemicals)
- adaptability to standard and special flanges
- resistance to high temperatures and medium-high pressures
- good resistance to thermal shocks
- greater robustness compared to soft gaskets

**Planisteel MJ** gaskets are available in different construction configurations (single or double jacket, with or without overlap lips) and can be customised according to diameter, thickness, jacket material and filler, depending on specific operating conditions.

**MJ00**



**MJ10**



**MJ14**



## Applications

**Planisteel MJ** metal-jacketed gaskets are specifically designed for applications on heat exchangers and represent a reliable and versatile solution for plants in the **chemical, petrochemical, energy, food and general plant engineering sectors**, where safe sealing combined with long service life is required.

## Tech Data

| PLANISTEEL MJ | MJ00 and MJ10 | | MJ14 | |
|---|---|---|---|---|
| **MATERIAL** | **m** | **y (psi)** | **m** | **y (psi)** |
| Aluminium | 3,25 | 5500 | 2,50 | 2900 |
| Soft copper or brass | 3,50 | 6500 | 2,75 | 3700 |
| Iron or soft steel | 3,75 | 7600 | 3,00 | 4500 |
| Monel | 3,50 | 8000 | 3,25 | 5500 |
| 4%-6% chrome | 3,75 | 9000 | 3,25 | 5500 |
| Stainless steel | 3,75 | 9000 | 3,50 | 6500 |

* PLANISTEEL gaskets are available in all metals and inserts. Sealing factors m & y according to ASME VIII Boiler and Pressure Vessel Code



## Planisteel MJ

**Metal-jacketed gaskets Planisteel MJ** are sealing elements designed for industrial applications, especially for heat exchangers, where high reliability is required.
They consist of an **external metal jacket** enclosing a plastic or compressible **filler** material, combining the mechanical strength of metal with the adaptability properties of the filler.

- The **external metal jacket** (typically made of carbon steel, stainless steel, copper, aluminum, or special alloys) provides **structural robustness**, mechanical strength, corrosion resistance, and protection of the internal material.
- The **filler** (PTFE, graphite, fibers, or equivalent materials) ensures **excellent deformability**, allowing the gasket to compensate for irregularities on the mating surfaces.
- **Sealing** mainly occurs on the metal edge of the gasket.

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