Semi-Metallic Gaskets

• Spiral Wound Gaskets
• High Temperature Spiral Wound Gaskets
• Metal Jacketed Gaskets
• Kammprofile Gaskets

This Spiral Wound Gasket is manufactured by spirally winding a preformed V-shaped metal strip and various filler on the outer periphery under tension properly. Varying metallic inner & outer rings can be attached as required by operating conditions and applications with a variety of metal materials.

Widely used in the chemical, petrochemical, Oil refining, gas, power plant, various pipe flanges, heat-exchangers and shipbuilding.

Filler Type | Main Composition | Applicable Temperature
--- | --- | ---
STARFOIL® | Flexible Graphite | 600°C
STARFLON® | PTFE | 260°C
STARFLEX® | Mica | 1000°C
Non-Asbestos | Non-Asbestos | 400°C
CGC | Ceramic + STARFOIL® | 600°C
NGLN | Non-Asbestos + STARFOIL® | 600°C
HTG | STARFOIL® + STARPITE® | 800°C

Inner Ring Type
- Semi-Metallic Gaskets
  - Spiral Wound Gaskets
  - High Temperature Spiral Wound Gaskets
  - Metal Jacketed Gaskets
  - Kammprofile Gaskets

Inner-Outer Ring Type
- Basic Type

Outer Ring Type
- Metal Winding (Hoop) & Filler
### Metal Jacketed Gasket

**Gasket Design**

- **STARFLON® Tape**
- **NA**
- **STARFOIL® Tape**
- **FILLER**

**Service Range**

- Maximum temp. & pressure combinations cannot be used at the same time.

**Standard Dimensions**

<table>
<thead>
<tr>
<th>Type</th>
<th>Standard</th>
<th>Available</th>
<th>Recommended</th>
<th>Compressibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>3850- (Flexible Graphite Tape)</td>
<td>6.35mm</td>
<td>6.35mm</td>
<td>6.35mm</td>
<td>6.35mm</td>
</tr>
</tbody>
</table>

### Ring Joint Gasket

**Characteristics**

Ring joint gaskets designed for use in high pressure temperature applications necessitated the need for a high integrity seal. They are mainly used in high pressure vessels, pipe fittings, valve bonnets handling high pressure steams, gas, hot oil, superheated industrial, etc.

### Other Metallic Gasket

**Type**

- **Metal O-Ring**

**Service Range**

- Maximum pressure range: 205bar (3000psi) for water, 255bar (3700psi) for oil.

<table>
<thead>
<tr>
<th>Type</th>
<th>Standard</th>
<th>Available</th>
<th>Recommended</th>
<th>Compressibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>3850-WR</td>
<td>6.35mm</td>
<td>6.35mm</td>
<td>6.35mm</td>
<td>6.35mm</td>
</tr>
</tbody>
</table>

### Soft Sealing Materials

**Kampprofile Gasket (Attached Sealing Material)**

**Characteristics**

Kampprofile Gasket is composed of a specially selected grade of metal strip and various soft facing materials of soft facing such as Flexible Graphite, PTFE, and Non-asbestos providing stable sealing performance in various conditions.

The sealing layers protect flange surface damage from high bolt stress and excellent in recovery and of soft facing such as flexible Graphite, PTFE, and Non-asbestos providing stable sealing performance.

<table>
<thead>
<tr>
<th>Type</th>
<th>Standard</th>
<th>Available</th>
<th>Recommended</th>
<th>Compressibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>3850-D</td>
<td>6.35mm</td>
<td>6.35mm</td>
<td>6.35mm</td>
<td>6.35mm</td>
</tr>
</tbody>
</table>

**Cross Section and JIC No.**

<table>
<thead>
<tr>
<th>JIC No.</th>
<th>Material</th>
<th>Size (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3850-25</td>
<td>SUS 321</td>
<td>25.4</td>
</tr>
<tr>
<td>3850-30</td>
<td>SUS 321</td>
<td>30.5</td>
</tr>
</tbody>
</table>

**Metal O-Ring**

- **Type**
- **Service Range**
- **Standard Dimensions**