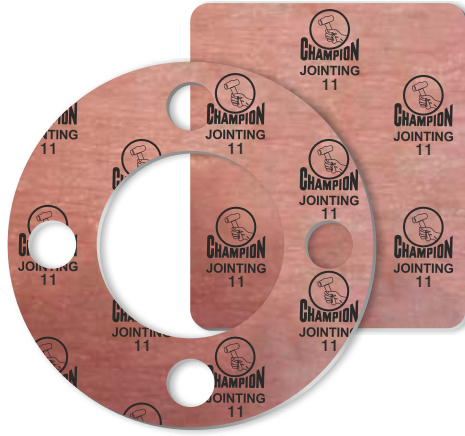


Champion CAF Jointing Sheets and Gaskets

The Original Champion  since 1959

CHAMPION STYLE 11 GASKET



Champion Style 11 can be used as jointing for general purpose, medium performance duties. Preferred as gasket for liquid and gases in low internal pressure and temperature. Suitable for flanges with low bolt loading conditions.

This grade is available in both non-metallic and metallic variants—featuring steel wire-reinforced gauze insertion—and is supplied with a smooth, anti-stick graphite finish on the top.

IDENTITY COLOUR: RED or GRAPHITED BLACK with Anti-Stick Coating

TEMPERATURE:

Maximum Continuous Service Temperature:

270°C / 486°F - Non Metallic

300°C / 572°F - Metallic

PRESSURE:

Maximum Pressure:

2.5 MPa / 25 Bar (362 psi) - Non Metallic

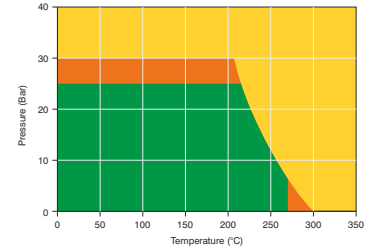
3.0 MPa / 30 Bar (435 psi) - Metallic

Specification Compliance:

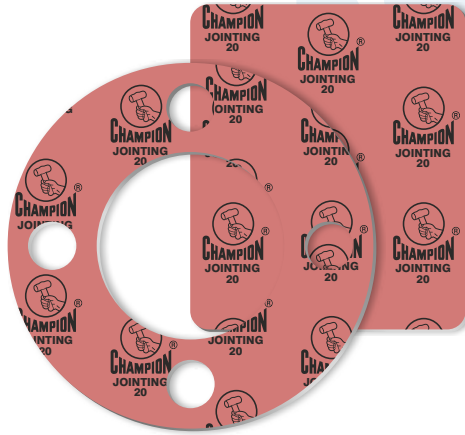
(IS 2712-1971 Grade C), (IS 2712-1998 Grade W/3)

Special Sheet Size:

1600 mm X 4500 mm



CHAMPION STYLE 20 RED GASKET



Champion Style 20 Red Gasket is a general-purpose jointing sheet suitable for medium-performance duties. It is preferred for sealing liquids and gases under low internal pressure and temperature conditions. Ideal for flanges with low bolt loading requirements.

IDENTITY COLOUR: RED or GRAPHITED BLACK with Anti-Stick Coating

TEMPERATURE:

Maximum Continuous Service Temperature:

380°C / 716°F - Non Metallic

PRESSURE:

Maximum Pressure:

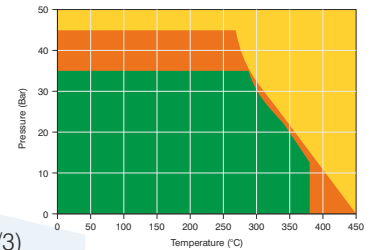
3.5 MPa / 35 Bar (507 psi) - Non Metallic

Specification Compliance:

(IS 2712-1971 Grade C), (IS 2712-1998 Grade W/3)

Special Sheet Size:

2000 mm X 4500 mm



CHAMPION STYLE 20 METALLIC GASKET



Champion Style 20 Metallic Gasket is a steel wire-reinforced gauze insertion and is supplied with a smooth, proprietary anti-stick graphite finish on the top. This gasket is used for general-purpose steam and vapor applications.

IDENTITY COLOUR: GRAPHITED BLACK with Anti-Stick Coating

TEMPERATURE:

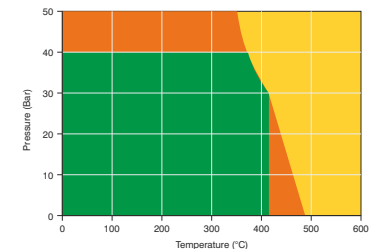
Maximum Continuous Service Temperature:

415°C / 779°F - Metallic

PRESSURE:

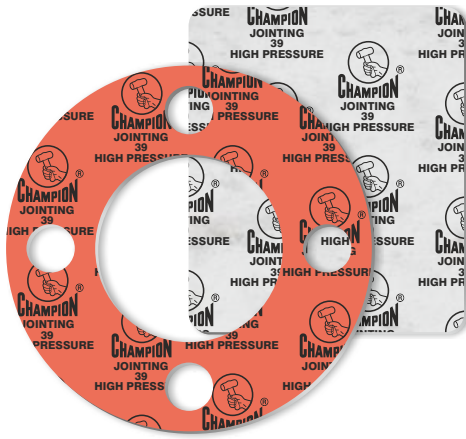
Maximum Pressure:

4 MPa / 40 Bar (580 psi) - Metallic



Guidelines for application: 🟢 General Suitability 🟡 Consultation is recommended 🟠 Technical consultation is mandatory
Always refer chemical resistance of gasket to the media

CHAMPION STYLE 39 OIL GASKET



Champion Style 39 Oil is a medium-performance jointing sheet suitable for high-temperature and high-pressure applications in petrochemical, distillate, refinery, and process industries. This grade is available in both non-metallic and metallic variants—featuring steel wire-reinforced gauze insertion—and is supplied with a smooth, anti-stick graphite finish on the top.

IDENTITY COLOUR: ORANGE/GREY or GRAPHITED BLACK
with Anti-Stick Coating

TEMPERATURE:

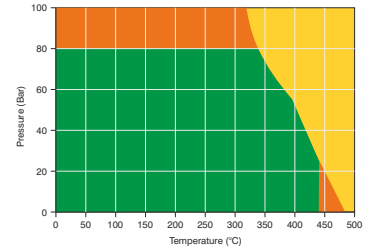
Maximum Continuous Service Temperature:
440°C / 824°F - Non Metallic
480°C / 896°F - Metallic

PRESSURE:

Maximum Pressure:
8 MPa / 80 Bar (1160 psi) - Non Metallic
10 MPa / 100 Bar (1450 psi) - Metallic

Specification Compliance:

(IS 2712-1998 Grade 0/2), (IS 2712-1971 Grade B),
(IS 2712-1979 Grade W/2), (BS 2815-1973 Grade B)



CHAMPION STYLE 51 HIGH PRESSURE GASKET



Champion Style 51 High Pressure Gasket is a medium-performance jointing sheet suitable for high-temperature and high-pressure applications in petrochemical, distillate, refinery, and process industries. This grade is available in both non-metallic and metallic variants—featuring steel wire-reinforced gauze insertion—and is supplied with a smooth, anti-stick graphite finish on the top.

IDENTITY COLOUR: BROWN/GREY or GRAPHITED BLACK
with Anti-stick Coating

TEMPERATURE:

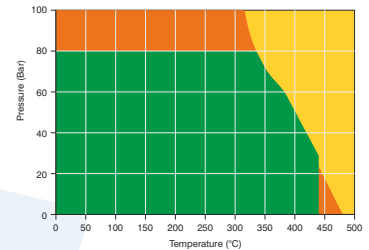
Maximum Continuous Service Temperature:
440°C / 824°F - Non Metallic
480°C / 896°F - Metallic

PRESSURE:

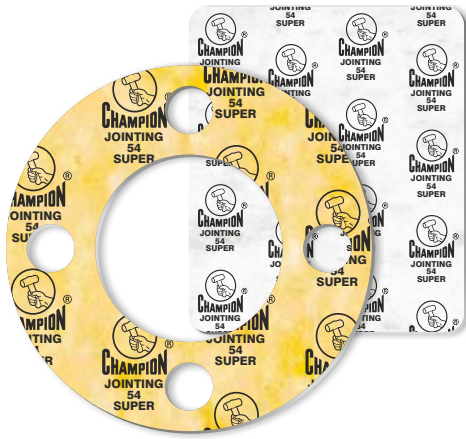
Maximum Pressure:
8 MPa / 80 Bar (1160 psi) - Non Metallic
10 MPa / 100 Bar (1450 psi) - Metallic

Specification Compliance:

(IS 2712-1998 Grade W/2), (BS 2815-1973 Grade B)



CHAMPION STYLE 54 SUPER YELLOW GASKET



Champion Style 54 Super Gasket is a high-performance jointing sheet primarily used as a superheated steam gasket. It is the industry's preferred choice for demanding applications such as boilers, air separation units, petroleum distillates, oil refineries, diesel generators, marine engines, and more.

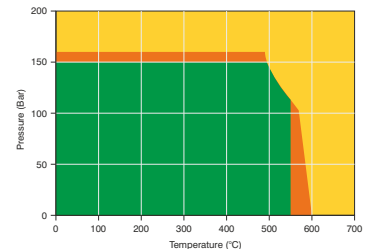
IDENTITY COLOUR: YELLOW/GREY or GRAPHITED BLACK with Anti-Stick Coating

TEMPERATURE:

Maximum Continuous Service Temperature:
550°C / 1022°F - Non Metallic

PRESSURE:

Maximum Pressure:
15 MPa / 150 Bar (2175 psi) - Non Metallic



Guidelines for application: General Suitability Consultation is recommended Technical consultation is mandatory
Always refer chemical resistance of gasket to the media

CHAMPION STYLE 54 SUPER METALLIC GASKET



Champion Style 54 Super Metallic Gasket is a steel wire-reinforced gauze insertion (minimum 18 mesh x 30 gauge) and is supplied with a smooth, anti-stick graphite finish on the top. It is the preferred industry choice for high-temperature and high-pressure applications, and is popularly known as a boiler gasket.

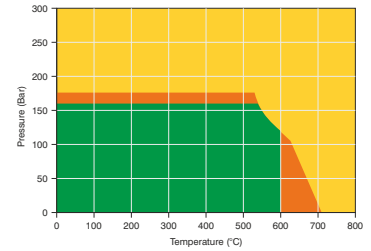
IDENTITY COLOUR: GRAPHITED BLACK with Anti-Stick Coating

TEMPERATURE:

Maximum Continuous Service Temperature:
600°C / 1112°F - Metallic

PRESSURE:

Maximum Pressure:
16 MPa / 160 Bar (2330 psi) - Metallic



CHAMPION STYLE 55 UNIVERSAL GASKET



Champion Style 55 Universal Gasket is a high-performance jointing sheet engineered for extreme operating conditions. It is specifically designed to perform under fluctuating pressures, high thermal cycling, and environments where mechanical vibrations are prevalent. Ideal for applications with narrow flange widths, it offers superior sealing integrity and dimensional stability. It is the gasket of choice across critical industrial segments such as steam boilers, air compressors, cylinder head assemblies, and internal combustion engines, where reliability under stress is non-negotiable.

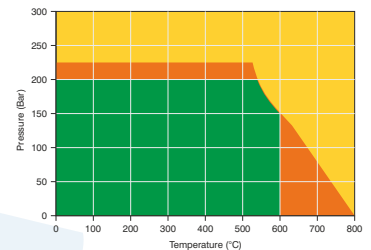
IDENTITY COLOUR: DARK GREY

TEMPERATURE:

Maximum Continuous Service Temperature:
600°C / 1112°F - Non Metallic

PRESSURE:

Maximum Pressure:
20 MPa / 200 Bar (2900 psi) - Non Metallic



CHAMPION STYLE 55 UNIVERSAL METALLIC GASKET



Champion Style 55 Universal Metallic Gasket is a stainless steel wire-reinforced gauze insertion (minimum 18 mesh x 30 gauge) and is supplied with a smooth, anti-stick graphite finish on the top. It is preferred as a universal application gasket for high-temperature and high-pressure sealing in steam, vapor, and oil systems (excluding chemical applications).

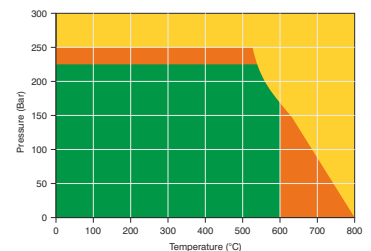
IDENTITY COLOUR: GRAPHITED BLACK with Anti-Stick Coating

TEMPERATURE:

Maximum Continuous Service Temperature:
600°C / 1112°F - Metallic

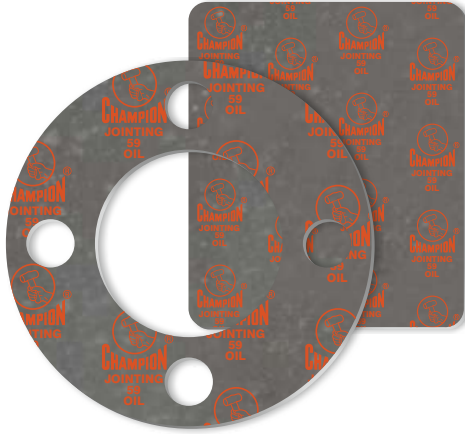
PRESSURE:

Maximum Pressure:
22.5 MPa / 225 Bar (3260 psi) - Metallic



Guidelines for application: 🟢 General Suitability 🟡 Consultation is recommended 🟠 Technical consultation is mandatory
Always refer chemical resistance of gasket to the media

CHAMPION STYLE 59 OIL PREMIUM GASKET



Champion Style 59 Oil Premium is a high-performance jointing sheet designed for high-temperature and high-pressure applications involving oil, grease, lubricants, petrochemicals, and solvents. This grade is available in both non-metallic and metallic variants—featuring steel wire-reinforced gauze insertion—and is supplied with a smooth, anti-stick graphite finish on the top.

IDENTITY COLOUR: DARK GREY

TEMPERATURE:

Maximum Continuous Service Temperature:

550°C / 1022°F - Non Metallic

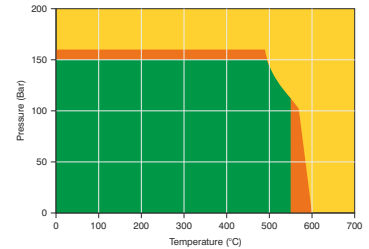
600°C / 1112°F - Metallic

PRESSURE:

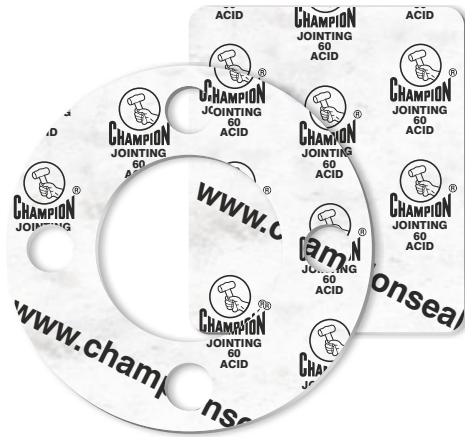
Maximum Pressure:

15 MPa / 150 Bar (2175 psi) - Non Metallic

16 MPa / 160 Bar (2320 psi) - Metallic



CHAMPION STYLE 60 ACID / CHEMICAL APPLICATION GASKET



Champion Style 60 Acid / Chemical is suitable for all acid and corrosion-resistant jointing applications in the Chemical Processing Industry. This 'ACID' jointing sheet has been the preferred packing choice of plant engineers and maintenance personnel for the last six decades, and is one of the best-selling products for CPI applications.

IDENTITY COLOUR: CREAM/LIGHT GREY

TEMPERATURE:

Maximum Continuous Service Temperature:

210°C / 410°F

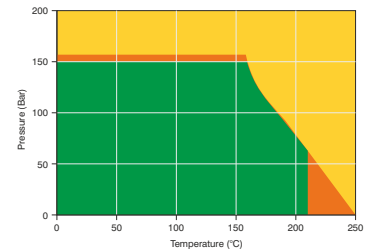
PRESSURE:

Maximum Pressure:

15 MPa / 150 Bar (2175 psi)

Specification Compliance:

(IS 2712-1971 Grade A/1)



TECHNICAL DATA SHEET

| GASKET SHEET | TENSILE STRENGTH | STRESS RESISTANCE | COMPRESSIBILITY | RECOVERY | IGNITION LOSS | RECOMMENDED* MAX. TEMPERATURE | RECOMMENDED* MAX. PRESSURE |
|--------------------------------------|-----------------------|----------------------|-----------------|----------|---------------|-------------------------------|----------------------------|
| Champion Style 11 | 6.7 N/mm ² | 20 N/mm ² | 7.5-13.5% | ≥40% | ≤35% | 270°C | 25 Kg/sq.cm |
| Champion Style 20 Red | 9.5 N/mm ² | 20 N/mm ² | 7.5-12% | ≥42.5% | ≤20% | 380°C | 35 Kg/sq.cm |
| Champion Style 20 Metallic | 12 N/mm ² | 20 N/mm ² | 7-12% | ≥45% | ≤20% | 415°C | 40 Kg/sq.cm |
| Champion Style 39 Oil | 18 N/mm ² | 23 N/mm ² | 7-12% | ≥45% | ≤22% | 440°C | 80 Kg/sq.cm |
| Champion Style 51 High Pressure | 15 N/mm ² | 23 N/mm ² | 7-12% | ≥45% | ≤22% | 440°C | 80 Kg/sq.cm |
| Champion Style 54 Super Yellow | 28 N/mm ² | 28 N/mm ² | 6.5-11.5% | ≥50% | ≤25% | 550°C | 150 Kg/sq.cm |
| Champion Style 54 Super Metallic | 30 N/mm ² | 30 N/mm ² | 7-10.5% | ≥50% | ≤22% | 600°C | 160 Kg/sq.cm |
| Champion Style 55 Universal | 33 N/mm ² | 32 N/mm ² | 7-11% | ≥55% | ≤23% | 600°C | 200 Kg/sq.cm |
| Champion Style 55 Universal Metallic | 42 N/mm ² | 34 N/mm ² | 7-11% | ≥55% | ≤23% | 600°C | 225 Kg/sq.cm |
| Champion Style 59 Oil Premium | 28 N/mm ² | 30 N/mm ² | 7-10.5% | ≥50% | ≤25% | 550°C | 150 Kg/sq.cm |
| Champion Style 60 Acid / | 27 N/mm ² | 25 N/mm ² | 7-12% | ≥45% | ≤25% | 210°C | 150 Kg/sq.cm |

Champion Metallic Jointing Sheets: When the operating temperature and pressure is critical, when the effective gasket area is small, we recommend Champion Metallic Wire Reinforced Gaskets for critical applications in boiler, power generation, steel plants, oil and gas refineries.

*Technical Notes: Information given in this brochure is based on general experience and is given in good faith. As the company's products are used for various application's and having no control over the application or use, the company excludes all warranties, expressed or implied as to their products or their fitness for any particular application. Any technical advice/suggestion is given for the customers assistance without liability on part of the company, whatsoever.

Champion “Hammer in Hand” Brand Jointing Sheet and Gaskets are manufactured as per BS (British Standard) and IS (Indian Standards)

Gasket Selection

Gaskets must maintain a leak proof seal for an acceptable period of time, against all of the operational forces involved and to achieve this, there are eight important properties which any good gasket should possess:

- The gasket should not be porous to the fluid being sealed.
- The gasket should compress into the imperfections on the flange to create initial seal on application of sealing force.
- The gasket should not show significant creep under the influence of load and temperature. Such flow will allow the bolts to relax, reduce gasket surface stress and cause leakage.
- The gasket should be capable of catering to slight distortion between the flanges.
- The gasket should withstand chemical attack from the media being handled.
- The gasket has to be easily dismantled after use.
- The gasket should be able to withstand effects of temperature and pressure of the confined media.
- The gasket should not cause corrosion of the flange faces.

(Please visit our website: www.championseals.in for the questionnaire form to be filled and sent to us for our guidance on appropriate style selection for any new/existing applications.)

Champion “Hammer in Hand” Brand Jointing Sheet and Gaskets are manufactured on British and Italian calendaring machinery to ensure the product specifications are manufactured to international standards.

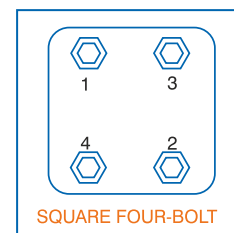
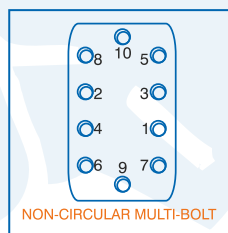
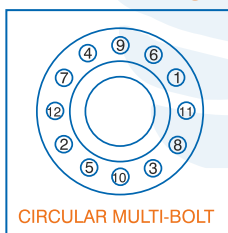
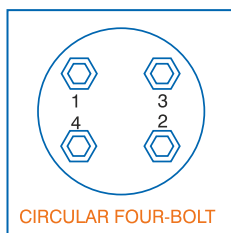
Gasket selection should be done as per the operating parameters, i.e. temperature, pressure, media and equipment. All gasket are recommended to be cut on a hydraulic press or on an automated laser cutting CNC machine. To ensure a leakage free gasket installation, the flange seat has to be clean, without any surface damage. It is not advisable to cut gaskets using a chisel / hammer.

Since 1959, Champion offers its valued customers, 100% guaranteed assurance for its products to ensure leak-proof sealing and insulation products subject to the above technical notes. Please be aware of spurious and duplicate products which may damage your plant and machinery; injure factory employees, workmen. Spurious products cause downtime, production loss and emergency shutdown.

Champion CAF Jointing Sheets are manufactured in the following sheet sizes:

| | | |
|--------------------------------------|---|-------------------|
| Available Sheet Sizes in mm (+/- 5%) | 2000 mm x 1500 mm | 2000 mm x 6000 mm |
| | 1600 mm x 2000 mm | 1600 mm x 4000 mm |
| | 2000 mm x 2000 mm | 2000 mm x 3000 mm |
| Thickness (mm) | 0.4/0.5 mm; 0.75/0.8 mm; 1.0 mm; 1.5 mm; 2.0 mm; 3.0 mm; 4.0 mm; 5.0 mm; 6.0 mm | |

Bolting Installation Procedure



The sequence in which bolts are tightened has a substantial bearing upon the distribution of contact area stress. Improper bolting may cock the flange out of parallel. It is important for proper sealability that the flanges are clean and free from any serious defect.

To identify original Champion “Hammer in Hand” Brand Jointing Sheet and Gaskets; kindly look for company’s website (www.championseals.in) printed diagonally across every sheet. To verify if the product is original, please send us a photo of the gasket sheet, along with the product label on the sheet to the below contact co-ordinates.

CHAMPION SEALS INDIA PRIVATE LIMITED SEALANT & GASKET INDIA PRIVATE LIMITED

Champion House, 15 Parsi Panchayat Road, Andheri (East), Mumbai – 400069. INDIA

Product Inquiry (India) : sales@championseals.in

Product Inquiry (Exports) : exports@championseals.in

General Inquiry : info@championseals.in

Customer Care Number : +91 98201 71162

Website : www.championseals.in

