

**Champion CAF Jointing Sheets and Gaskets**

**The Original Champion  since 1959**



## CHAMPION STYLE 20 RED GASKET

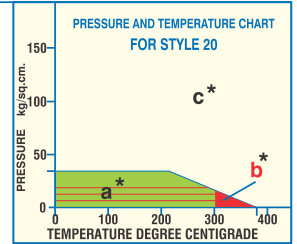
DESCRIPTION: Champion Style 20 Red Gasket is the ideal gasket for water, steam applications, assuring reliable performance across various non-critical steam / water based parameters.

Champion Style 20 Red CAF Gasket is also suitable for general purpose non-critical applications across industries.

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

### TECHNICAL DATA

Recommended Maximum Temperature 380°C  
 Recommended Maximum Pressure 35 Kg/sq.cm  
 Specification Compliance  
 (IS 2712 - 1971 Grade C)  
 (IS 2712 - 1998 Grade W/3)  
 SPECIAL SHEET SIZE: 2000 mm x 4500 mm



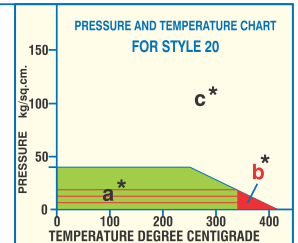
## CHAMPION STYLE 20 METALLIC GASKET

DESCRIPTION: Champion Style 20 Metallic Gasket is reinforced with steel wire mesh insertion, with a proprietary anti-stick graphite coat. This gasket is installed for general purpose steam and water applications having higher pressure.

**IDENTITY COLOUR:** GRAPHITED BLACK with Anti-Stick Coating

### TECHNICAL DATA

Recommended Maximum Temperature 415°C  
 Recommended Maximum Pressure 40 Kg/sq.cm



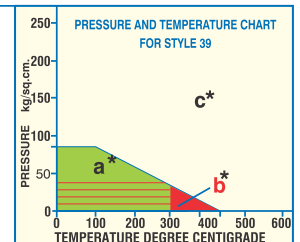
## CHAMPION STYLE 39 OIL GASKET

DESCRIPTION: Champion Style 39 Oil Gasket is manufactured from selected premium raw material and vulcanized with high temperature resistant elastomer, compounds. Suitable for applications against dry, wet steam / water, gases, alkalis, oil at non critical temperature, non corrosive chemicals, fuels and general engineering.

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

### TECHNICAL DATA

Recommended Maximum Temperature 440°C  
 Recommended Maximum Pressure 80 Kg/sq.cm  
 Specification Compliance  
 (Indian IS 2712 - 1998 Grade 0/2), (IS 2712 - 1971 Grade B/S),  
 (IS 2712 - 1979 Grade W/2), (British BS 2815 - 1973 Grade B)



\*Guidelines For Application

a) The gasket material is suitable subject to chemical compatibility.

b) The gasket material is suitable for short term temperature fluctuation or noncritical application.

c) For Extreme service conditions, Kindly consult CHAMPION Technical Support.



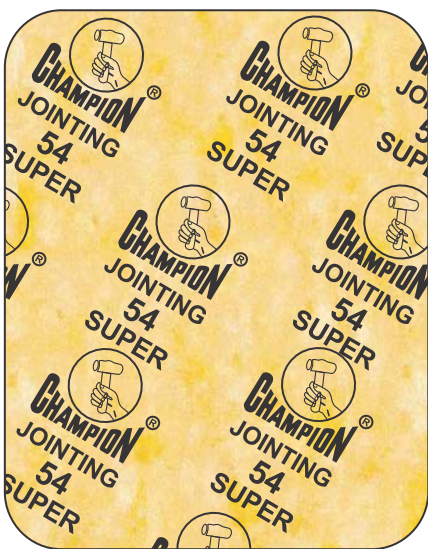
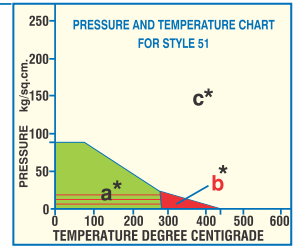
## CHAMPION STYLE 51 HIGH PRESSURE GASKET

Description: Champion Style 51 High Pressure Gasket is manufactured with premium raw material and bonded with high grade binder compound. This product has a wide range of applications in the industrial field. Recommended against steam, neutral non-flammable gases, dyes alkalis, fats, oils, alcohols, motor fuels and other such engineering service conditions which do not warrant the use of a high grade gasket material such as Champion Style 54 SUPER.

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

### TECHNICAL DATA

Recommended Maximum Temperature 440°C  
 Recommended Maximum Pressure 80 Kg/sq.cm  
 Specification Compliance  
 (IS 2712 - 1998 Grade W/2), (BS 2815 - 1973 Grade B)



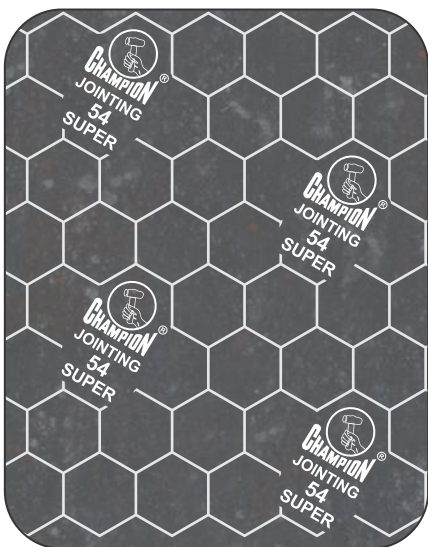
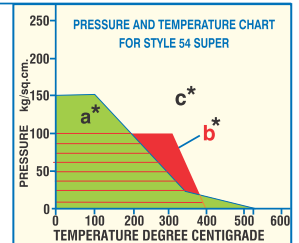
## CHAMPION STYLE 54 SUPER YELLOW GASKET

DESCRIPTION: Champion Style 54 Super Yellow Gasket is manufactured with premium grade fibre, blended with heat resisting rubber compounds, under a special process, to ensure maximum stability against high pressure and temperatures. Though primarily a super heated steam gasket, it is also recommended against saturated steam, oxygen, petroleum distillates, oils, fats, fuels, internal combustion engines, hydrocarbons, alcohols, solvents, dyes, marine engines, diesel generators.

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

### TECHNICAL DATA

Recommended Maximum Temperature 550°C  
 Recommended Maximum Pressure 150 Kg/sq.cm  
 Specification Compliance  
 (Indian IS 2712 - 1998 Grade W/1), (IS 2712 - 1971 Grade A/S),  
 (DGS & DG/MISC/ 81-C item 12 (a) Special Quality)  
 (British BS 2815 - 1973 Grade A)



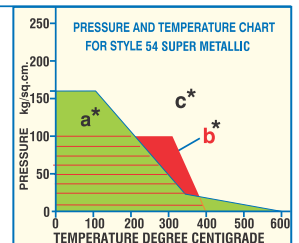
## CHAMPION STYLE 54 SUPER METALLIC GASKET

DESCRIPTION: Champion Style 54 Super Metallic (Steel Wire Reinforcement) Gasket with an anti-stick graphite compound is manufactured with a propriety formulation of premium quality raw materials. This premium grade of gasket is highly recommended against critical high temperature / pressure applications in steel / alumina / metal manufacturing industries, electricity generation, diesel exhaust manifold, cylinder head gaskets, internal combustion engines, air compressors, boilers.

**IDENTITY COLOUR: GRAPHITED BLACK with Anti-Stick Coating**

### TECHNICAL DATA

Recommended Maximum Temperature 600°C  
 Recommended Maximum Pressure 160 Kg/sq.cm



#### \*Guidelines For Application

- a) The gasket material is suitable subject to chemical compatibility.
- b) The gasket material is suitable for short term temperature fluctuation or noncritical application.
- c) For Extreme service conditions, Kindly consult CHAMPION Technical Support.



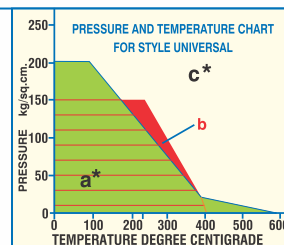
## CHAMPION STYLE 55 UNIVERSAL GASKET

Description: Champion Style 55 Universal Gasket is manufactured with premium grade of fibers bonded with special grade NBR binder. This premium universal grade gasket is ideal for a wide range of high-temperature applications including high-temperature saturated steam, hydrocarbon, fuel, oil, solvent, petroleum distillates, alcohol, aromatic substances, phenols, refrigerants, alkalis.

**IDENTITY COLOUR: DARK GREY**

### TECHNICAL DATA

Recommended Maximum Temperature **600°C**  
 Recommended Maximum Pressure **200 Kg/sq.cm**  
 Specification Compliance  
 (IS 2712 - 1998 Grade W/1 & 0/1)



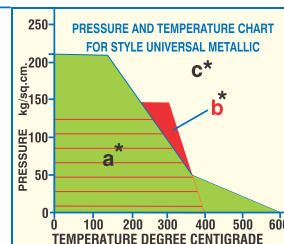
## CHAMPION STYLE 55 UNIVERSAL METALLIC GASKET

DESCRIPTION: Champion Style 55 Universal Metallic (SS Wire Reinforced) Gasket with an anti-stick graphite compound is manufactured with a proprietary formulation of premium quality raw materials and is recommended for extreme operating parameters. This premium gasket is suitable for super heated, saturated steam, hydrocarbon, sulphurous compound, phenols, refrigerants, alkalis.

**IDENTITY COLOUR: GRAPHITED BLACK with Anti-Stick Coating**

### TECHNICAL DATA

Recommended Maximum Temperature **600°C**  
 Recommended Maximum Pressure **225 Kg/sq.cm**



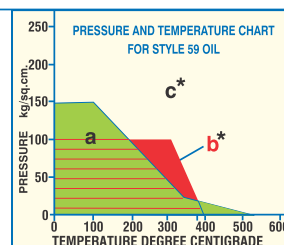
## CHAMPION STYLE 59 OIL PREMIUM GASKET

DESCRIPTION : Champion Style 59 Oil Grade Premium Gasket is manufactured with premium grade fiber, elastomers, chemical binders, being recommended against oil, grease, lubricant, petrochemical, solvent applications. This gasket is recommended for distillates, oil refining, industrial processes with high contents of aromatic substances, sulphurous compounds, chloric hydrocarbons, phenols, refrigerants.

**IDENTITY COLOUR: DARK GREY**

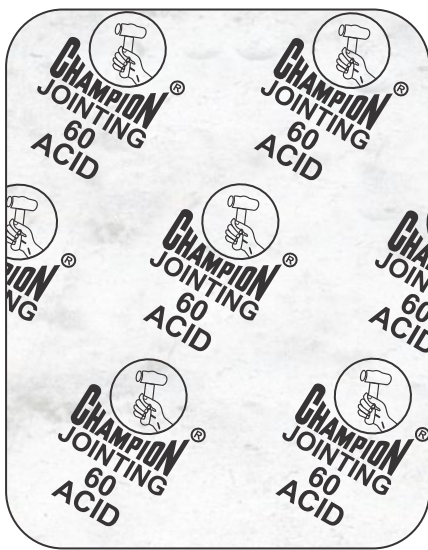
### TECHNICAL DATA

Recommended Maximum Temperature **550°C**  
 Recommended Maximum Pressure **150 Kg/sq.cm**  
 Specification Compliance  
 (Indian IS 2712 - 1998 Grade 0/1),  
 (IS 2712 - 1971 Grade A/O),  
 (DEFENCE TS RED/71/59), (British BS 1832-1972)



#### \*Guidelines For Application

- a) The gasket material is suitable subject to chemical compatibility.
- b) The gasket material is suitable for short term temperature fluctuation or noncritical application.
- c) For Extreme service conditions, Kindly consult CHAMPION Technical Support.



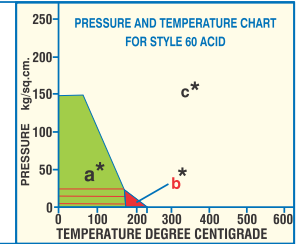
## CHAMPION STYLE 60 ACID / CHEMICAL APPLICATION GASKET

**DESCRIPTION:** This is a premium grade acid / chemical resisting gasket, which is intimately bonded with technical suitable premium raw materials to withstand the corrosive action of acids, alkali/chemicals. Recommended for use against hot concentrated organic, inorganic, mineral acids including hydrochloric acid, sulphuric (oleum), nitric acid under various chemical based media.

**IDENTITY COLOUR:** CREAM/LIGHT GREY

### TECHNICAL DATA

**Recommended Maximum Temperature** 210°C  
**Recommended Maximum Pressure** 150 Kg/sq.cm  
**Specification Compliance** (IS 2712 - 1998 Grade A/1)



#### \*Guidelines For Application

- a) The gasket material is suitable subject to chemical compatibility.
- b) The gasket material is suitable for short term temperature fluctuation or noncritical application.
- c) For Extreme service conditions, Kindly consult CHAMPION Technical Support.

## TECHNICAL DATA SHEET

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

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 “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.

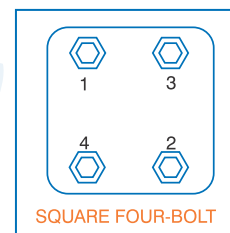
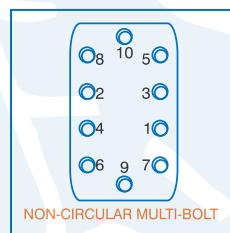
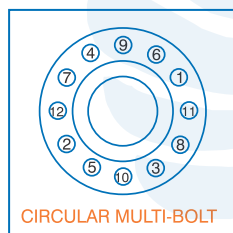
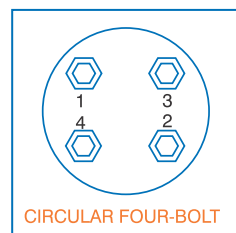
(Please visit our website: [www.championseals.in](http://www.championseals.in) for the questionnaire form to be filled and sent to us for our guidance on appropriate style selection for any new/existing applications.)

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.

### 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	

### 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](http://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](mailto:sales@championseals.in)

Product Inquiry (Exports): [exports@championseals.in](mailto:exports@championseals.in)

General Inquiry : [info@championseals.in](mailto:info@championseals.in)

Customer Care Number : +91 98201 71162

Website : [www.championseals.in](http://www.championseals.in)

