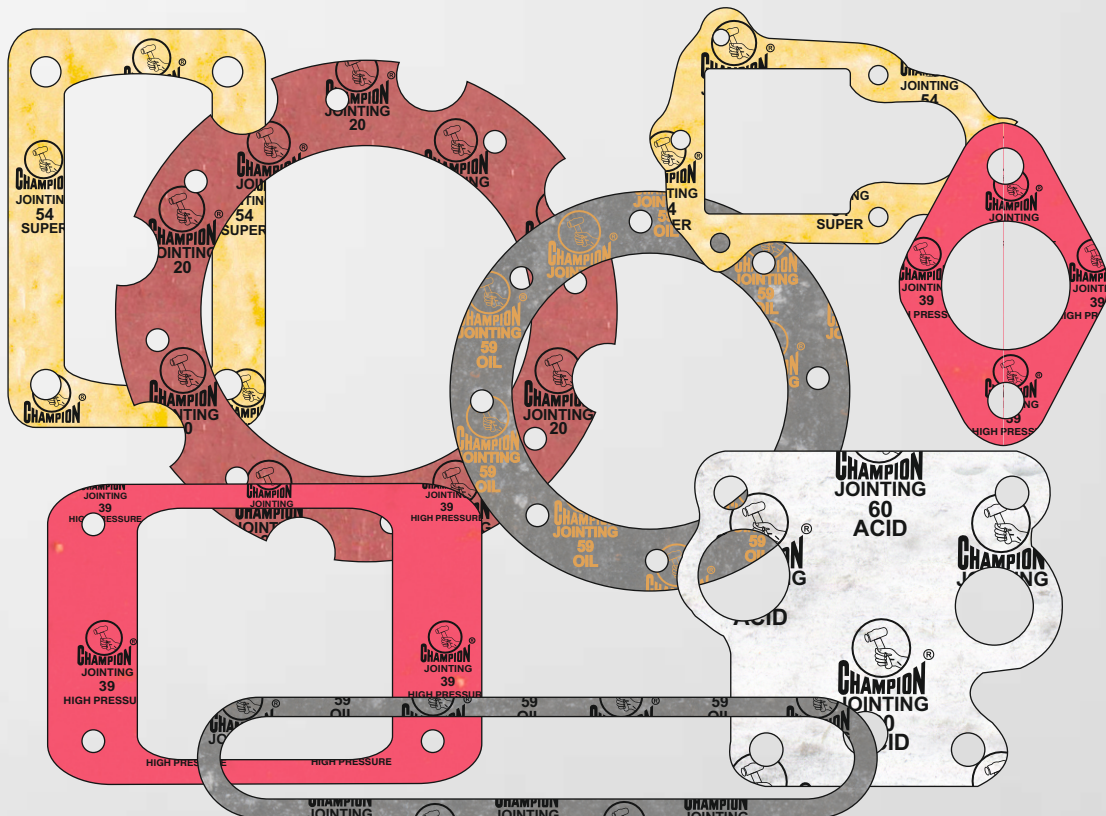




# Champion Jointing Sheets - CAF





## CHAMPION STYLE 20

**DESCRIPTION :** Compressed Asbestos Fibre Jointing is a consistently uniform and resilient product. A price worthy quality of dependable performance, plus adaptability to many sealing requirements makes this 'STEAM' JOINTING the choice sheet packing of Plant Engineers and Maintenance men. CHAMPION STYLE 20 Jointings are developed for general purpose applications and this quality is applicable to a wide range of duties with less severe working conditions of temperature and pressure.

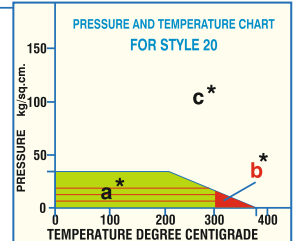
**IDENTITY COLOUR**

**RED OR GRAPHITED**

### TECHNICAL DATA

**Recommended Maximum Temperature** 380°C.  
**Recommended Maximum Pressure** 35 Kg/sq.cm.

**Specification Compliance**  
 (IS 2712 - 1998 Grade W/3),  
 (IS 2712 - 1971 Grade C.)



## CHAMPION STYLE 20 METALLIC

**DESCRIPTION :** A Compressed Asbestos Fibre Jointing with wire gauze insertion supplied with Graphite Finish. Used for general purpose application where conditions of temperature and pressure are not too severe.

**IDENTITY COLOUR**

**GRAPHITED BLACK**

### TECHNICAL DATA

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



## CHAMPION STYLE 39 HIGH PRESSURE

**DESCRIPTION :** Manufactured from selected quality of Asbestos Fibre and vulcanized with special rubber compound to meet with the exacting requirements of modern industry. Used for applications against dry and wet steam water, gases, alkalies, oil at normal temperatures, chemicals, fuels etc. and general engineering. CHAMPION Style 39 can also be provided with wire gauze insertion in graphited finish.

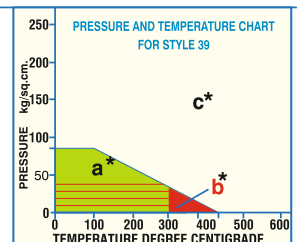
**IDENTITY COLOUR**

**ORANGE/GREY OR GRAPHITED**

### 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 - 1979 Grade W/2),  
 (IS 2712 - 1971 Grade B/S)  
 (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



Description : Manufactured from selected Asbestos Fibre 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 alkalies, fats, oils, alcohols, motor fuels and such other engineering service conditions which do not warrant the use of as High Grade material such as CHAMPION Style 54 SUPER

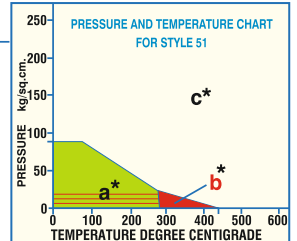
**IDENTITY COLOUR**

**BROWN/GREY OR GRAPHITED FINISH  
METALLIC & NON-METALLIC**

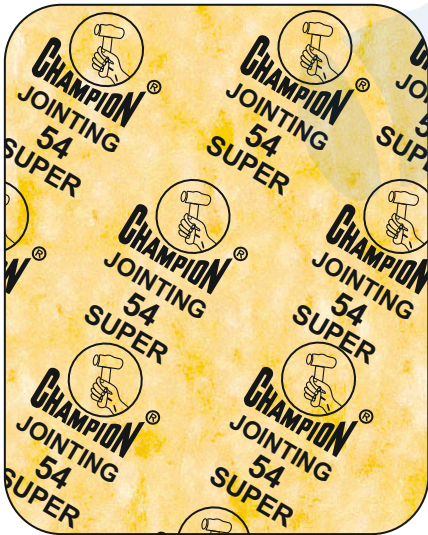
### TECHNICAL DATA

**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



DESCRIPTION : Manufactured from excellent quality of Chrysotile Asbestos Fibre and raw materials, the blend being intimately mixed with heat resisting rubber compounds under special process, to ensure maximum stability against high pressure and temperatures. Though primarily a super heated steam Jointing it is also recommended against saturated Steam, Oxygen, petroleum distillates, oils and fats, fuels, internal combustion engines, hydrocarbons, alcohols, solvents, dyes, etc. It is popularly used in MARINE ENGINES, electricity generating sets etc.

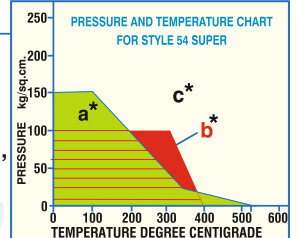
**IDENTITY COLOUR**

**YELLOW/GREY OR GRAPHITED**

### 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



DESCRIPTION : A Compressed Asbestos Fibre Jointing Graphited embedded with a strong reinforcement of steel wire gauze, THE SUPER METALLIC gasket sheet is superior in performance over other forms of Jointing Sheets where severe physical conditions of High Pressure and temperature have to be resisted. It is effectively used under rapidly changing operating conditions of pressure, where vibrations are experienced, where the flange of the gasket joint is narrow, in diesel exhaust manifold, cylinder head gaskets, internal combustion engines and Air Compressors.

**IDENTITY COLOUR**

**GRAPHITED BLACK**

### 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

Description: This is a superior grade jointing sheet manufactured from high quality chrysotile asbestos bonded with special grade NBR binder. This is specially designed CAF jointing sheet for application over an unlimited range of critical application. This hitech CAF jointing is suitable for hydrocarbon, fuel oil, solvent, petroleum distillates, alcohol, aromatic substances, phenols, refrigerants, alkalis etc.

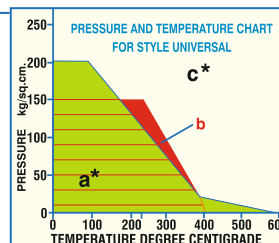
**IDENTITY COLOUR**

**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

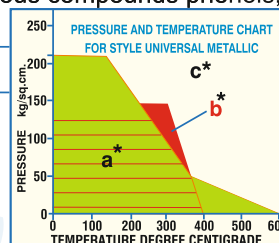
DESCRIPTION : This is a high grade jointing sheet manufactured from superior quality asbestos bonded with special grade rubber and chemicals. This is a high tech CAF jointing sheet specially designed for extreme conditions. This is developed only in metallic variety with special metallic wire net to prevent galvanic corrosion and special grade of graphite is used on the surface which acts as anti-release agent. This gasket is resistant not only to high temperature but also to extreme pressure surge which is a common factor in main steam line. This CAF jointing is suitable for super heated and saturated steam, hydrocarbon, sulphurous compounds phenols, refrigerants, alkalis etc.

**IDENTITY COLOUR**

**GRAPHITED BLACK**

### TECHNICAL DATA

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



## CHAMPION STYLE 59 OIL

DESCRIPTION : A high grade Asbestos Fibre Jointing bonded with a sophisticated compound, this specialised jointing withstands the most exacting demands of oil and Petrochemicals plants, solvents refrigerator, oil etc. Used in pipe lines and apparatus of the petrochemical fields, petroleum distillates, oil and petroleum refining industries. It is also recommended in industrial processes with high contents of aromatic substances, sulphurous compounds, chloric hydrocarbons, phenols, refrigerants, etc. Use of CHAMPION oil jointing sheet assures safety and economy even on critical working conditions. The jointing gives satisfactory services against steam also.

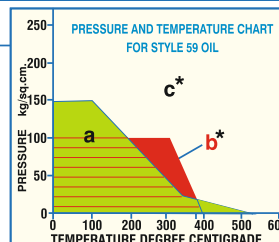
**IDENTITY COLOUR**

**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)

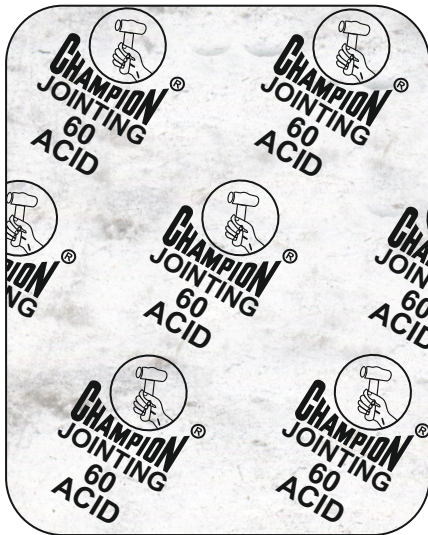


\*Guidelines For Application

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

**DESCRIPTION :** This is a specialised Asbestos Fibre Jointing Sheet which is intimately bonded with Acid resisting compound, to withstand the corrosive action of acids and chemicals. Recommended for use against hot concentrated organic, Inorganic and mineral acids including hydrochloric, sulphuric (oleum) and nitric acids, under service conditions of temperature and pressures commonly encountered in Chemical Industries.

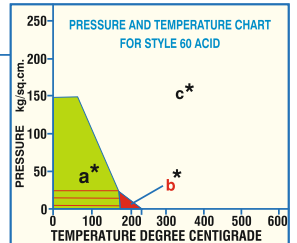
**IDENTITY COLOUR**

**CREAM/LIGHT GREY**

### TECHNICAL DATA

**Recommended Maximum Temperature** 210°C  
**Recommended Maximum Pressure** 150 Kg/sq.cm.

**Specification Compliance**  
 (IS2712 - 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.

### MAJOR TECHNICAL FEATURES

STYLE	TENSILE STRENGTH N/mm <sup>2</sup>	STRESS RESISTANCE N/mm <sup>2</sup>	COMPRESSIBILITY %	RECOVERY %	IGNITION LOSS%	RECOMENDED MAXIMUM TEMPERATURE	RECOMENDED MAXIMUM PRESSURE
20	9.5	20	7.5-12	≥ 42.5	≤ 20	380°C	35 Kg/sq.cm.
20 M	12	20	7-12	≥ 45	≤ 20	415°C	40 Kg/sq.cm.
39	18	23	7-12	≥ 45	≤ 22	440°C	80 Kg/sq.cm.
51 High Pressure	15	23	7-12	≥ 45	≤ 22	440°C	80 Kg/sq.cm.
54 Super	28	28	6.5-11.5	≥ 50	≤ 25	550°C	150 Kg/sq.cm.
54 Super M	30	30	7-10.5	≥ 50	≤ 22	600°C	160 Kg/sq.cm.
55 Universal	33	32	7-11	≥ 55	≤ 23	600°C	200 Kg/sq.cm.
55 Universal Metallic	42	34	7-11	≥ 55	≤ 23	600°C	225 Kg/sq.cm.
59 Oil	28	30	7-10.5	≥ 50	≤ 25	550°C	150 Kg/sq.cm.
60 Acid	27	25	7-12	≥ 45	≤ 25	210°C	150 Kg/sq.cm.

"Champion" Metallic jointing sheets : When the operating temperature / pressure is high and when the effective gasket area is small, jointing sheets with wire gauge reinforcement are suggested to be used.

**Disclaimer:** Information given in this catalog 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 Compressed Asbestos Fibre Jointing Sheets

## Insist on Quality - Insist on Champion

"Champion" jointing sheet technology is based on a tradition which stretches back over few decades. With close co-operation with our customers, by constant development of composition of materials and by use of high quality raw materials, the company has produced reliable gasketing products which always correspond to the latest state of technology.

"Champion" products are developed with the strong belief on the proven fact that the most qualitative gasket is cheaper than the work necessary for changing an improper gasket.

### Gasket Selection

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

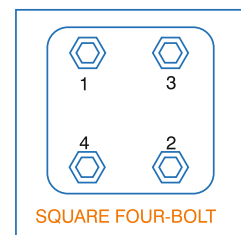
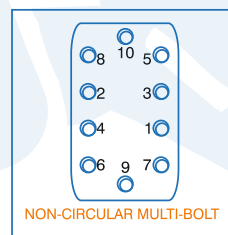
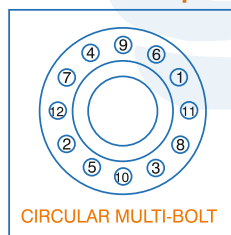
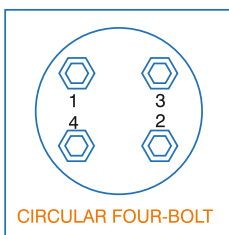
- The gasket should not be porous to the fluid being sealed.
- The gasket should compress into the imperfections on the flange to create initial seal on application of sealing force.
- The gasket should not show significant creep under the influence of load and temperature. Such flow will allow the bolts 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 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 Asbestos fibre jointing sheets are manufactured on latest factory equipments and developed with the aid of research and scientific facts to take care of one and all of above factors combined with highly specialised technical knowledge of Engineers with experience of a life time. Our products meet with the increasingly exacting requirements in Engineering and chemical industries for contact gaskets on fixed sealing faces. Champion Asbestos fibre jointing sheets are manufactured to international quality standards, which our customers can depend upon. The operating temperature for Asbestos fibre jointing sheet material is related to the thickness selected. Thinner materials offer better temperature and pressure properties.

**SHEET SIZE : 2Mx1.5M upto 6M, 2Mx2M, 2Mx3M, 2Mx6M, 1.5Mx1.6M (Size variation +/- 5%)**  
**Nominal Sheet Thickness (approx): 0.4/0.5, 0.75/0.8, 1.0, 1.5, 2.0, 3.0, 4.0, 5.0 mm**

### Proper Bolting 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.

## CHAMPION SEALS INDIA PVT. LTD. SEALANT & GASKET INDIA PVT. LTD.

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