

# Champion Gasket

## Style AF 139

COMPRESSED FIBRE GASKET FOR STEAM AND OIL APPLICATIONS



Compressed fibre jointing sheet with aramid and inorganic fibres with NBR binder

**Champion Jointing Style AF 139** is higher performance BS7531 Grade-X Asbestos-Free (AF) Jointing sheet. It is comprised of compressed aramid fibres and bonded with a combination of functional fibres with a nitrile rubber binder to create a matrix of stability for thermal and chemical medium service.

Champion AF 139 Sheets are available in non-metallic and also in metallic option (with wire re-inforcement and anti-stick properties-which minimizes adhesion of the gasket to flange surfaces even at elevated temperatures, resulting in reduced removal time). This grade is produced in orange color.

**Applications: Champion Jointing AF139** is very popular as soft cut gasket for wide range of media.

**Service Media:** Hydrocarbons-oils, solvents, steam, gases, glycols, aqueous solutions. (medium service conditions).

#### How Supplied:

Sheets, pre-cut gaskets, special density, thickness, shape or grade available on request.

Sheet ordering information	
Available Sheet Sizes in mm (+/- 5%)	1600 mm x 1500 mm
	1500 mm x 2000 mm
	1600 mm x 4500 mm
	2000 mm X 6000 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

#### Typical Physical Properties:

Description	Standard Specs	Typical Values
Density	DIN 28090-2	1.8-2.0 g/cm <sup>3</sup>
Tensile Strength	ASTM F 152	≥10 MPa / 100 Bar (1450 psi)
Compressibility	ASTM F 36	8% to 12%
Residual Stress	BS 7531	≥26 MPa /260 Bar (3770 psi)
Gas Permeability	BS 7531	<0.5 cc/min
Recovery	ASTM F 36	≥40%
Water Absorption	BS 7531	≤5%
Ignition Loss	DIN 52911	≤35%

#### Fluid Resistance:

Weight Increase	ASTM Oil No.3 : 5hr/150°C(300°F)	<10%
	ASTM Fuel B : 5hr/23°C(73.4°F)	<10%
Thickness Increase	ASTM Oil No.3 : 5hr/150°C(300°F)	<10%
	ASTM Fuel B : 5hr/23°C(73.4°F)	<10%



## CHAMPION SEALS INDIA PRIVATE LIMITED SEALANT & GASKET INDIA PRIVATE LIMITED

Champion House, 15 Parsi Panchayat Road, Andheri (East), Mumbai – 400069. India  
Product Inquiry : info@championseals.in  
Customer Care Number: +91 98201 71162  
Website : www.championseals.in



#### TEMPERATURE

**Maximum Short-Term Service Temperature:**  
400°C / 720°F

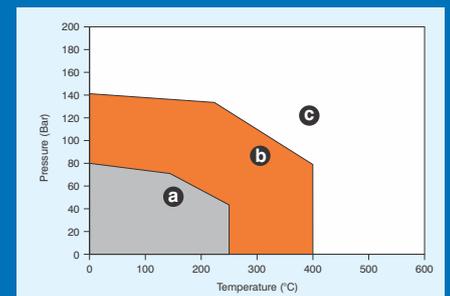
**Maximum Continuous Service Temperature:**  
250°C / 450°F



#### PRESSURE

**Maximum Pressure:**  
8 MPa / 80 Bar (1160 psi)

#### CHAMPION AF 139 PRESSURE / TEMPERATURE LIMITS



#### Guidelines for application:

- Suitable subject to chemical compatibility.
- Suitable for short term temperature fluctuation or non critical application.
- For extreme service conditions, kindly consult Champion Technical Support.

#### APPROVALS / COMPLIANCE

Compliance with  
BS 7531:2006 Grade-X  
IS 17796:2022 Grade-X

\*Kindly consult Champion Technical Support for all critical applications.