

# Champion Gasket

## Style AF 159 Oil Premium Grade

COMPRESSED FIBRE GASKET FOR OIL APPLICATIONS



Aramid fibre with special functional fillers bonded with oil-resisting binders

**Champion Jointing Style AF 159 Oil** is special purpose BS7531 Grade-X Asbestos-Free(AF) Jointing sheet. It is blend of superior heat resisting compressed aramid fibres bonded with a combination of functional fibres along with nitrile elastomeric binders (NBR).

Champion AF 159 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 Grey color.

**Applications: Champion Jointing AF 159 Oil** is very popular as soft cut gasket for extreme industrial applications in oil engines / generators / pumps, fuels, hydraulic equipment and usage lines.

**Service Media:** Suitable for use with High Pressure Steam compatibility with oils, fuels and hydrocarbon compounds. (High 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	1.85 - 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	<0.1 cc/min
Recovery	ASTM F 36	≥50%
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

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#### TEMPERATURE

**Maximum Short-Term Service Temperature:**  
450°C / 810°F

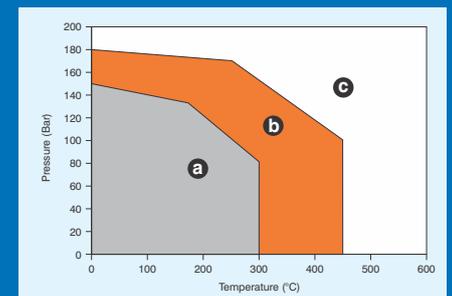
**Maximum Continuous Service Temperature:**  
300°C / 540°F



#### PRESSURE

**Maximum Pressure:**  
15 MPa / 150 Bar (2175 psi)

#### CHAMPION AF 159 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.