

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.

Typical Physical Properties:

Description	Standard Specs	Typical Values
Density	DIN 28090-2	1.85 - 2.0 g/cm ³
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%

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



TEMPERATURE

Maximum Short-Term Service Temperature:

450°C / 810°F

Maximum Continuous Service Temperature:

300°C / 540°F

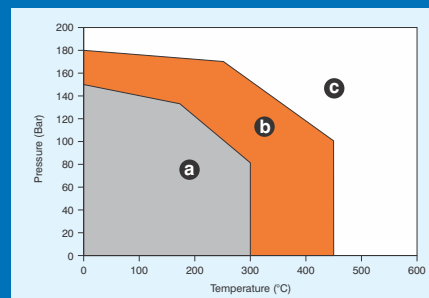


PRESSURE

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.



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

