

# Champion Gasket

## Style AF 190

### HIGH PERFORMANCE COMPRESSED FIBRE GASKET



Aramid fibre with premium grade of fillers and elastomers

**Champion Style AF 190 Performance Gasket** is a premium grade high temperature, pressure resistance compressed asbestos-free (AF) universal jointing sheet consisting of premium grade of aramid fibers, heat dissipating graphite, carbon bonded with HNBR elastomers, additives and specialty chemicals.

Champion Style AF 190 Performance Gasket are available in non-metallic and also in metallic option (with wire re-inforcement and anti-stick properties). This grade is produced in dark grey / black color.

**Applications: Champion Style AF 190 Performance Gasket** has excellent resistance to high temperature / steam applications, oils, hydro carbons, solvents, fuels, refrigerants, gas.

**Service Media:** Suitable for use in corrosive, non-corrosive applications, hot oil, gas, super-heated and saturated steam. Suitable for various critical flange sealing applications.

#### 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	≥ 15 MPa / 150 Bar (2175 psi)
Compressibility	ASTM F 36	7% to 11%
Residual Stress	BS 7531	≥ 25 MPa / 250 Bar (3625 psi)
Gas Permeability	BS 7531	< 0.8 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:**  
500°C / 932°F

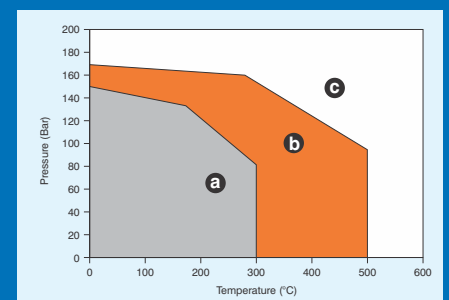
**Maximum Continuous Service Temperature:**  
300°C / 572°F



#### PRESSURE

**Maximum Pressure:**  
15 MPa / 150 Bar (2175 psi)  
- Non Metallic  
17 MPa / 170 Bar (2465 psi)  
- Metallic

#### CHAMPION AF 190 PREMIUM PERFORMANCE 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.