

# Champion Gasket

## Style AF K11

UNIVERSAL FIBRE GASKET FOR OUTSTANDING STRESS RELAXATION AND INSULATION APPLICATIONS



Optimum combination of aramid fibre bonded with special elastomeric binders

**Champion Jointing Style AF K11** is a superior performance, high dielectric strength compressed asbestos-free (AF) universal jointing sheet consisting of premium grade of synthetic aramid fibers, with special performance elastomers, additives and specialty chemicals. The materials are specially formulated to act as insulator or barrier to flow of electrons from one flange to another. Champion Jointing AF K11 Sheets are available in non-metallic (i.e. without wire reinforced) This grade is produced in cream / off white.

**Applications:** Champion Jointing AF K11 has excellent creep resistance at elevated temperature and is used as gasket for universal applications. It has very high Dielectric Strength which makes it ideal insulating material.

#### Typical Physical Properties:

Description	Standard Specs	Typical Values
Density	DIN 28090-2	1.75 - 1.85 g/cm <sup>3</sup>
Tensile Strength	ASTM F 152	≥ 15 MPa / 150 Bar (2175 psi)
Compressibility	ASTM F 36	10% to 14%
Residual Stress	BS 7531	≥ 25 MPa / 250 Bar (3625 psi)
Gas Permeability	BS 7531	< 0.1 cc/min
Recovery	ASTM F 36	≥ 50%
Water Absorption	BS 7531	≤ 5%
Ignition Loss	DIN 52911	≤ 35%
Dielectric Strength		24-30 kv/mm
Thermal Conductivity		0.40 W/mK

#### 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 oils, water, steam, gases, salt solutions, fuels, alcohols, moderate organic and inorganic acids, hydrocarbons, lubricants and refrigerants, food industry.

#### 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

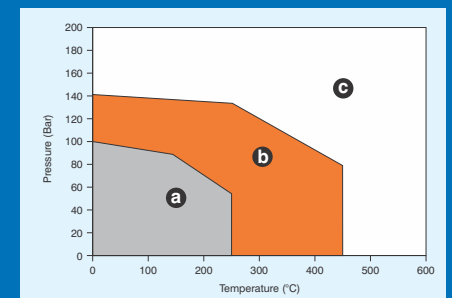
**Maximum Continuous Service Temperature:**  
250°C / 450°F



#### PRESSURE

**Maximum Pressure:**  
10 MPa / 100 Bar (1450 psi)

#### CHAMPION AF K11 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](mailto:info@championseals.in)  
Customer Care Number: +91 98201 71162  
Website : [www.championseals.in](http://www.championseals.in)

