

Champion Gasket

ePTFE Ultimate Flange Gasket (UFG)

RELIABLE SEALABILITY DUE TO LOW STRESS AND EXCEPTIONAL DIMENSIONAL STABILITY



100% pure virgin multi-directionally expanded PTFE sheet

Champion Jointing ePTFE Ultimate Flange Gasket UFG is a high performance biaxially orientated sheet sealing material containing 100% pure virgin PTFE manufactured from high quality PTFE resin through unique process, giving exceptional mechanical strength eliminating the problems of creep relaxation at elevated temperatures associated with normal (skived or moulded PTFE Sheets). This grade is produced in White colour.

Applications: Champion Jointing UFG is capable of a wide service range in applications found throughout the process industries. It is an ideal choice for both high load metal flanged applications and low load applications in glass lined steel, glass and plastic lined piping and vessels. It is primarily used in the chemical, pharmaceutical and food industry.

Service Media: Suitable for use in alkali, acid and chlorine service, can be used for all concentrations of sulphuric acid, hot and cold potable water services. pH range is 0-14.

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

Sheet ordering information	
Available Sheet Sizes in mm (+/- 5%)	1500 mm x 1500 mm
Thickness (mm)	1.5 mm; 2.0 mm; 3.0 mm

Typical Physical Properties:

Description	Standard Specs	Typical Values
Density	DIN 28090-2	0.8 - 0.95 g/cm ³
Tensile Strength	ASTM F 152	≥20 MPa / 200 Bar (2900 psi)
Compressibility	ASTM F 36	>45%
Residual Stress	BS 7531	≥15 MPa / 150 Bar (2175 psi)
Gas Permeability	BS 7531	<0.1 cc/min
Recovery	ASTM F 36	≥25%
Water Absorption	BS 7531	≤18%
Ignition Loss	DIN 52911	≤35%
Thermal Conductivity		0.40 W/mK

Gasket Constants acc. ASTM F586:

Thickness (mm)	m (MPa)	y [Mpa]	y [psi]
1.5	2.0	19.0	2750
3	2.0	19.3	2800

m: Maintenance factor; y: Seating stress



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

Minimum Service Temperature:

-268°C / -450°F

Maximum Service Temperature:

260°C / 500°F



PRESSURE

Minimum Pressure:

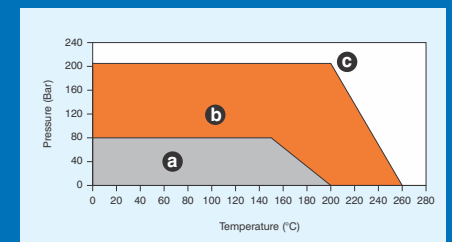
Full Vacuum

Maximum Pressure:

20.5 MPa / 205 Bar (3000 psi)

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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.

APPROVALS / COMPLIANCE

Compliance with FDA regulations for food and it is physiologically harmless.

*Kindly consult Champion Technical Support for all critical applications.