

# CHIEFTAIN®



## DESCRIPTION

Chieftain® is James Walker's premium grade universal sheet jointing. Its formulation contains an advanced carbon fibre material and a nitrile rubber (NBR) binder. An anti-stick finish to both surfaces is supplied as standard.

## PRIME FEATURES

- Carbon fibre for strength and stability.
- 450°C maximum temperature.
- Outstanding chemical and steam resistance.
- User friendly – easy to cut, handle and remove from flanges.

## SPECIFICATIONS

- Easily meets the requirements of BS7531 Grade X.
- Suitable for ASME Class 300 flange ratings to at least 260°C.

## PHYSICAL PROPERTIES

(Typical values for 1.5mm thick material)

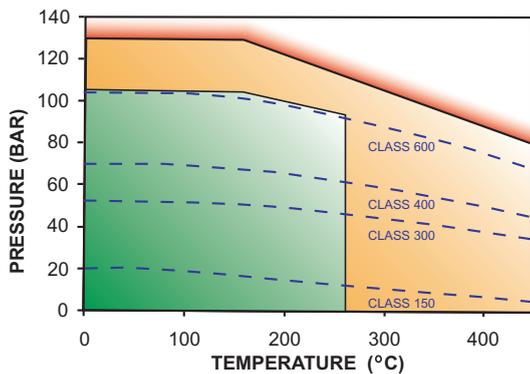
Density, Mg/m <sup>3</sup>	1.6	
Transverse tensile strength, MPa	9.0	(ASTM F152)
Residual stress, MPa	28.0	(BS7531)
Compressibility, %	10.0	(BS7531)
Recovery, %	60.0	(ASTM F36J)
Flexibility after accelerated ageing	Pass	(BSF125)
Gas permeability, ml/min	<1.0	(BS7531)
Leachable chloride ion content, ppm	<100	

## FLUID IMMERSION PROPERTIES

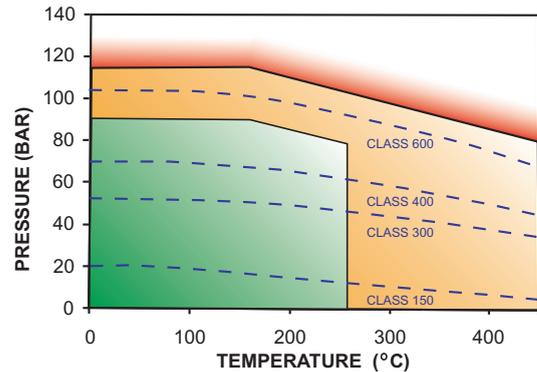
ASTM oil 3, % thickness increase, 5h @ 150°C	6.0	(BS7531)
Water, % thickness increase, 5h @ 100°C	5.0	(BS7531)
ASTM fuel B, % thickness increase, 5h @ RT	8.0	(ASTM F146)
Sodium hydroxide, % thickness increase, 10h @ 100°C	13.0	

## SERVICE CAPABILITY GRAPHS

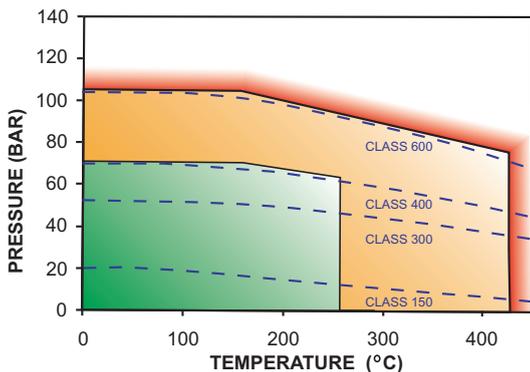
CHIEFTAIN, up to and including 0.75mm thickness: maximum working pressure against temperature guidelines.



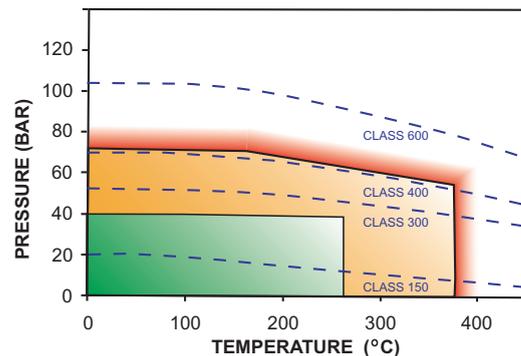
CHIEFTAIN, up to and including 1.0mm thickness: maximum working pressure against temperature guidelines.



CHIEFTAIN, up to and including 1.5mm thickness: maximum working pressure against temperature guidelines.



CHIEFTAIN, up to and including 2.0mm thickness: maximum working pressure against temperature guidelines.



## SERVICE CAPABILITY

For applications falling into the green zone of each graph, the product may normally be used without consultation. In the amber zone we recommend that our technical services team be contacted for confirmation of suitability. If the pressure/temperature combination is in the red zone then we must be consulted before the product is used. Class lines refer to ASME B16.5.

## HOW SUPPLIED

Precision cut gaskets to any shape, size and quantity. In sheets 2.0m x 1.5m, 1.5m x 1.0m. Thicknesses: 0.5mm, 0.75mm, 1.0mm, 1.5mm, 2.0mm. Please note that 3.0mm is also available but is not recommended (see page 30 for advice on gasket use).