

# PRODUCT SPECIFICATION SHEET

## MATERIAL : WCL Carbo Fiber

**WCL**

**CARBO-FIBER**

N° 03.55.e/1.01

High quality non-asbestos jointing sheet based on carbon fibres, kevlar® aramid fibres, mineral fillers and NBR elastomeric binder. The carbon fibres provide excellent chemical and thermal stability, resulting in high stress retention at high temperature and even in case of fire. The material exhibits outstanding flexibility for adaptation to flange surfaces.

### Applications

Excellent performance in high pressure and temperature applications, steam service, hydrocarbons, oils, mild acids and a wide range of alkalis.

**Technical Data** (typical values relate to 2 mm thickness)

Density	DIN 3754	1,8	g/cm <sup>3</sup>
Service limits*:			
Max. short term temperature		440	°C
Max. continuous operating temperature with non-aggressive media		350	°C
Max. continuous operating temperature with steam		280	°C
Max. operating pressure		120	bar
Compressibility	ASTM F36	6 ÷ 11	%
Recovery	ASTM F36	> 55	%
Stress retention:			
- 16 hrs, 300 °C, 50 N/mm <sup>2</sup>	DIN 52913	30	N/mm <sup>2</sup>
- 16 hrs, 175 °C, 50 N/mm <sup>2</sup>		35	N/mm <sup>2</sup>
Tensile Strength (across grain)	DIN 52910	8	N/mm <sup>2</sup>
Nitrogen permeability (50x90 mm, 32 MPa, 40 bar)	DIN 3535/4	< 0,1	mg/(s.m)



**Whitby and Chandler Ltd**

Green Road  
 Penistone  
 Sheffield  
 S36 6PH



Tel: +44 1226 370 380 Fax: +44 1226 767 138

E mail [enquiries@whitby-chandler.co.uk](mailto:enquiries@whitby-chandler.co.uk)

