

PRODUCT SPECIFICATION SHEET

MATERIAL : WCL Excelsior

Non-asbestos jointing sheet, composed of kevlar® aramid fibres, special glass fibres and thermally resistant fillers, bonded with high ACN-content NBR elastomer. The formulation gives the material good chemical stability and excellent resistance to creep at high temperature.

Applications

High temperature applications, in presence of gases, fuels, oils, mild acids and steam. Suitable for food industry, public utilities, water treatment plants, chemical plants, etc.

Technical Data (values relate to 2 mm thickness)

Density	DIN 3754		1.75	g/cm ³
Service limits*:				
Maximum short term temperature			440	°C
Max. continuous operating temperature with non-aggressive media			350	°C
Max. continuous operating temperature with steam			250	°C
Max. operating pressure			100	bar
Compressibility	ASTM F36		7 - 12	%
Recovery	ASTM F36	min.	50	%
Stress retention:				
- 16 hrs, 300°C, 50 N/mm ²	DIN 52913	min.	30	N/mm ²
- 16 hrs, 175°C, 50 N/mm ²		min.	35	N/mm ²
Tensile Strength (across grain)	DIN 52910	min.	9	N/mm ²
Gas permeability (N ₂ , 40 bar, 30 N/mm ² , 200°C)	DIN 28090	max.	0.05	mg/m sec
Immersion test in ASTM Oil 3 for 5 hrs. at 150°C				
- weight increase	ASTM F146	max.	10	%
- thickness increase		max.	8	%
Immersion test in ASTM Fuel B for 5 hrs at 20°C				
- weight increase	ASTM F146	max.	10	%
- thickness increase		max.	8	%



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Compression strength σ_{VO} at Room Temp.:	DIN 28090	min.	240	N/mm ²
" " " σ_{BO} at 100°C:	"	min.	110	N/mm ²
" " " σ_{BO} at 200°C:	"	min.	50	N/mm ²

* Max. temperature and pressure do not hold simultaneously and are reported for proper seating conditions and gasket design

Supply data

Surface color:	blue	Surface finishing:	4xA Anti-stick coating
Sheet size - Standard:	1500 x 1500 mm (upon request: 1500x3000 and 1500x4500 mm)	tolerance:	+/- 50 mm
Thickness:	from 0.3 to 5.0 mm	tolerance:	+/- 10%

References: BS 7531 grade X, DIN 28091 FA - GA N-0

Note: jointing manufacture is quality assured in accordance with ISO 9001

Data here reported, corresponding to laboratory and field tests results, are meant as non-binding guideline for gasket selection. No guarantee claim can be inferred from them. When needed, we shall be pleased to assist you with specific technical assistance.



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