



## FASIT® HT N° 03.57.e/4.03

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.

Density	DIN 3754	1,8	g/cm <sup>3</sup>
Service limits*: Maximum short term temperature Max. continuous operating temperature with non-aggressive media Max. continuous operating temperature with steam Max. operating pressure			
		440	350 250 120 °C °C bar
Compressibility	ASTM F36	9	%
Recovery	ASTM F36	55	%
Stress retention: DIN 52913			
- 16 hrs, 300°C, 50 N/mm <sup>2</sup>		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	9	N/mm <sup>2</sup>
Nitrogen permeability (50x90 mm, 32 MPa, 40 bar)	DIN 3535/6	0,03	mg/m.sec
Compression strength at room temp.: $\sigma_{VO}$ " " " at 100°C $\sigma_{BO}$ : " " " at 200°C			
$\sigma_{BO}$ : DIN 28090 " "		>160	90 45 N/mm <sup>2</sup> N/mm <sup>2</sup> N/mm <sup>2</sup>
Immersion test in ASTM Oil 3 for 5 hrs. at 150°C ASTM F146			
- weight increase		10	%
- thickness increase		8	%
Immersion test in ASTM Fuel B for 5 hrs at 20°C ASTM F146			
- weight increase		10	%
- thickness increase		8	%
PVRC gasket factors from ROTT test – proposed for future ASME code procedure (Draft '97) thickness 1,5 mm: Gb : 7,9 N/mm <sup>2</sup> a : 0,30 Gs : 0,807 N/mm <sup>2</sup>			
ex.: Min. assembly stress on flange RF 10" 150 lbs, RT, with nitrogen at: for tightness class "standard" (Tc = 1, leakage: 30 ml/min): N/mm <sup>2</sup> for tightness class "tight" (Tc = 10, leakage: 0,3 ml/min): N/mm <sup>2</sup> 5 bar 20 38 20 bar 30 60 40 bar 40 75 80 bar 55 100			

Surface color:	blue	Available 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

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

Note: FASIT® 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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Gasket Factors	Y (MPa)	M/1	M/0.1	
Mm 1.5	20	2.5	3	
Mm2	22	3	4	
Mm3	25	4	5	