



## 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.

### Technical Data (values relate to 2 mm thickness)

Density	DIN 3754	1,8	g/cm <sup>3</sup>
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		120	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
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:		5 bar	20 bar
for tightness class "standard" (Tc = 1, leakage: 30 ml/min):	N/mm <sup>2</sup>	20	30
for tightness class "tight" (Tc = 10, leakage: 0,3 ml/min):	N/mm <sup>2</sup>	38	60
		40 bar	80 bar
		40	55
		75	100

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

### Supply data

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.

