



DESCRIPTION

Tesnit® BA-CF has excellent thermal and chemical resistance to strong alkaline media. It is suitable for high temperature applications, petrochemicals and for the paper and cellulose industries.

Composition	Carbon fibers, inorganic fillers, NBR binder
Color	Black (both sides)
Surface finish	Standard : 4AS On demand : Graphite, PTFE
Approvals	BAM (oxygen) / BS 7531 Grade X / DNV DVGW DIN 30653 HTB (5bar) / DVGW DIN 3535-6

PROPERTIES

Mechanical resistance	Excellent
Thermal resistance	Excellent
Sealability performance	Excellent
Chemical resistance	Excellent

APPLICATIONS

Oil	Gas
Steam	chemical and petrochemical industry
High temperature & pressure mixed	

DIMENSIONS

Standard format (mm)	1500 x 1500 (+/-5%)
Other formats on demand (mm)	1000 x 1500 - 1500 x 3000 - 1500 x 4500 (+/-5%)
Thickness (mm)	0.30 - 0.50 - 0.80 - 1.00 - 1.50 - 2.00 - 3.00 (+/-10%)
Other thicknesses on demand (mm)	4.00 - 5.00 (+/-10%)
Tolerances	On length and width : +/-5% On thickness up to 1.00 mm : +/-0.10 mm On thickness above 1.00 mm : +/-10%



TECHNICAL DATA

Typical value for a thickness of 2mm

Test description	Standard	Unit	Value
Density	DIN 28090-2	g/cm ³	1.70
Compressibility	ASTM F36J	%	9
Recovery	ASTM F36J	%	60
Tensile strength	ASTM F152	MPa	12
Stress resistance	DIN 52913		
16h, 50 MPa, 175°C		MPa	35
16h, 50 MPa, 300°C		MPa	30
Specific leak rate	DIN 3535-6		0.09
Thickness increase	ASTM F146		
Oil IRM 903, 5h, 150°C		%	5
ASTM Fuel B, 5h, 23°C		%	5
Compression modulus	DIN 28090-2		
At room temperature ϵ_{KSW}		%	7.3
At elevated temperature $\epsilon_{WSW/200^\circ C}$		%	8.3
Percentage creep relaxation	DIN 28090-2		
At room temperature ϵ_{KRW}		%	3.6
At elevated temperature $\epsilon_{WRW/200^\circ C}$		%	1.0
Max. operating conditions			
Peak temperature		°C/°F	400/752
Continuous temperature		°C/°F	300/572
- with steam		°C/°F	280/536
Pressure		bar/psi	120/1740



P-T DIAGRAM

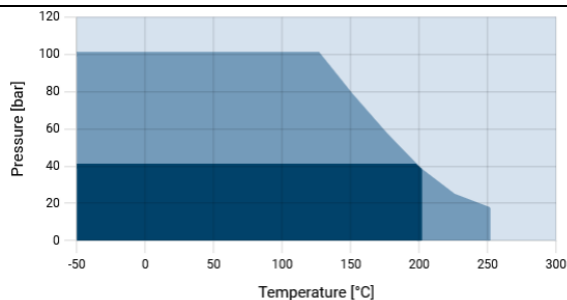
EN 1514-1, Type IBC, PN40, DIN 28091-2 / 3.8, 2.0mm

Agressive gasses

Pressure [bar]

No Data Available

Steam & Gas



Liquids

Pressure [bar]

No Data Available



General suitability – Under common installation practices and chemical compatibility.



Conditional suitability – Appropriate measures ensure maximum performance for joint design and gasket installation. Technical consultation is recommended.



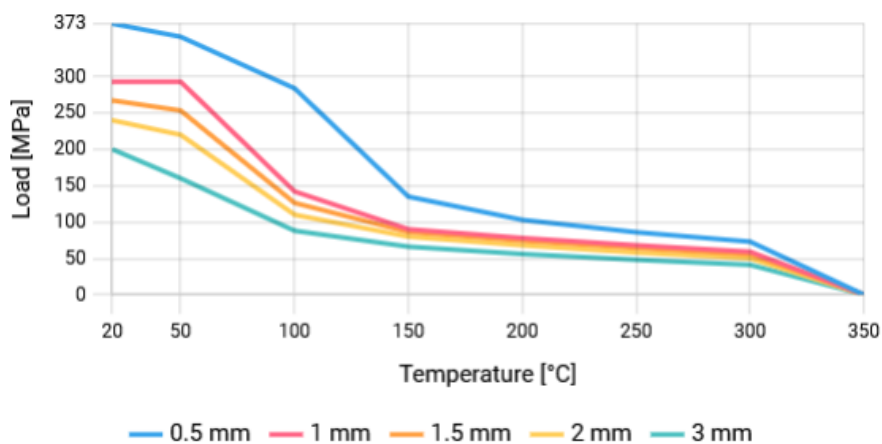
Limited suitability – Technical consultation is mandatory.

P-T Diagrams indicate the maximum permissible combination of internal pressure and service temperature which can be simultaneously applied for a given gasket according material type, thickness, size and tightness class. Given the wide variety of gasket applications and service conditions, these values should only be regarded as guidance for the proper gasket assembly. In general, thinner gaskets exhibit better P-T properties.



σ_{BO} DIAGRAM

DIN 28090-1



σ_{BO} diagrams represent σ_{BO} values for different gasket material thicknesses. These values indicate the maximum in-service compressive pressures which can be applied on the gasket area involved without destructing or damaging the gasket material.

The technical specifications mentioned above are typical average values obtained using the test methods indicated and may therefore be subject to normal manufacturing variations.

They are provided for guidance only. They do not constitute a guarantee, and we recommend that you carry out a test before final implementation.