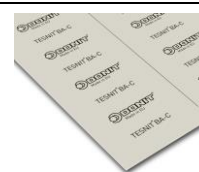


TECHNICAL MATERIAL DATA SHEET

TESNIT® BA-C



DESCRIPTION

Tesnit® BA-C is a material with a vulcanized CSM matrix combines very good chemical resistance to alkaline media and low gas permeability. It can be used for sealing strongly acidic and alkaline solutions and gases, ozonized or chlorinated water, and the like.

Composition	Aramid fibers, CSM binder, Inorganic fillers
Color	Beige (both sides)
Surface finish	Standard : 4AS On demand : Graphite, PTFE
Approvals	

PROPERTIES

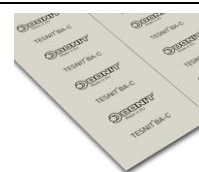
Mechanical resistance	Moderate
Thermal resistance	Moderate
Sealability performance	Very good
Chemical resistance	Excellent

APPLICATIONS

Chemical	Acides
Agressive media	

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)	0.50 - 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%



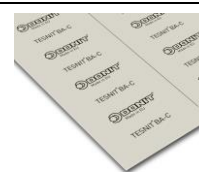
TECHNICAL DATA

Typical value for a thickness of 2mm

Test description	Standard	Unit	Value
Density	DIN 28090-2	g/cm ³	1.90
Compressibility	ASTM F36J	%	10
Recovery	ASTM F36J	%	58
Tensile strength	ASTM F152	MPa	13
Stress resistance	DIN 52913		
16h, 50 MPa, 175°C		MPa	22
16h, 50 MPa, 300°C		MPa	/
Specific leak rate	DIN 3535-6		0.05
Oil IRM 903 immersion, 5h, 150°C	ASTM F146		
Thickness increase		%	8
Mass increase		%	10
ASTM Fuel B immersion, 5h, 23°C	ASTM F146		
Thickness increase		%	9
Mass increase		%	10
96% H2SO4 immersion, 18h, 23°C	ASTM F146		
Thickness increase		%	10
Mass increase		%	10
65% H2SO4 immersion, 48h, 23°C	ASTM F146		
Thickness increase		%	/
Mass increase		%	/
Compression modulus	DIN 28090-2		
At room temperature ϵ_{KSW}		%	/
At elevated temperature $\epsilon_{WSW/200^\circ C}$		%	/
Percentage creep relaxation	DIN 28090-2		
At room temperature ϵ_{KRW}		%	/

TECHNICAL MATERIAL DATA SHEET

TESNIT® BA-C



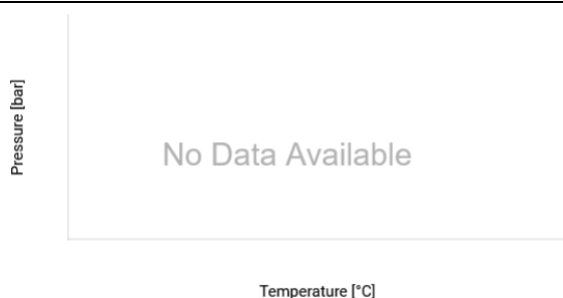
Test description	Standard	Unit	Value
At elevated temperature $\epsilon_{WRW/200^{\circ}\text{C}}$		%	/
Max. operating conditions			
Peak temperature		°C/°F	200/392
Continuous temperature		°C/°F	150/302
Pressure		bar/psi	60/870



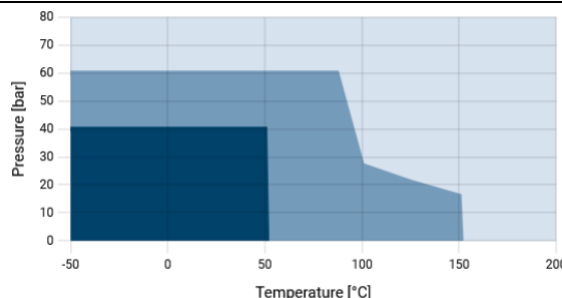
P-T DIAGRAM

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

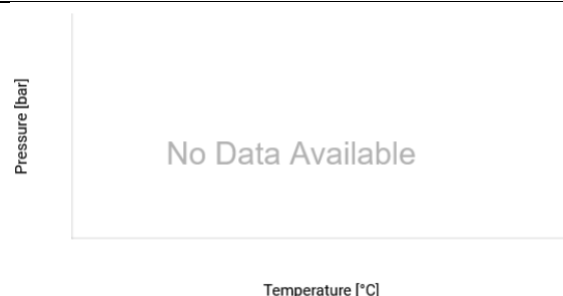
Agressive gasses



Steam & Gas



Liquids



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.



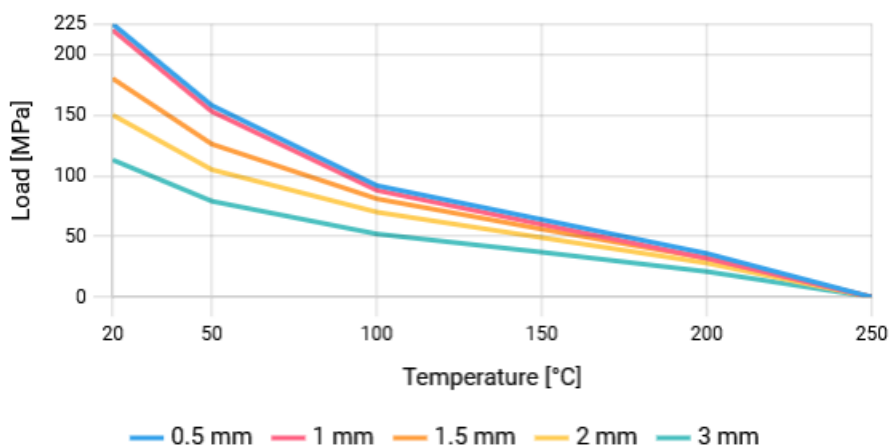
Limited suitability – Technical consultation is mandatory.

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.