TECHNICAL MATERIAL DATA SHEET
TESNIT® BA-50

DESCRIPTION

Tesnit® BA-50 has good thermal and chemical resistance, which makes it appropriate for use in a wide range of applications. Tesnit® BA-50 is well suited for use with potable water supply and shipbuilding.

Composition	Aramid fibers, inorganic fillers, NBR binder
Color	Light green (both sides)
Surface finish	Standard : 4AS On demand : Graphite, PTFE
Approvals	DNV / DVGW DIN 30653 HTB (1bar) / DVGW DIN 30653 HTB (5bar) DVGW DIN 3535-6 / EC 1935/2004 / SVGW DIN 3535-6 / WRAS

PROPERTIES

Mechanical resistance	Good
Thermal resistance	Good
Sealability performance	Good
Chemical resistance	Very good

APPLICATIONS

Potable water & water	Automotive
Oil	Food & Beverage
Fuel	Gas
Shipbuilding	

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%

HEADQUARTERS & PRODUCTION SITE : 117-118 Impasse Paul Louis Dagnet - 85610 CUGAND - FRANCE
PHONE +33 (0)2 51 42 13 76 - FAX +33 (0)2 51 43 61 14 - WEB: www.francejoint.com - EMAIL: contact@francejoint.fr
S.A.S CAPITAL 1.000.000 € - VAT N° FR 10 450 136 809 - SIRET 450 136 809 00016 - APE 2219Z

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TECHNICAL DATA

Typical value for a thickness of 2mm

Test description	Standard	Unit	Value
Density	DIN 28090-2	g/cm^3	1.80
Compressibility	ASTM F36J	%	9
Recovery	ASTM F36J	%	55
Tensile strength	ASTM F152	MPa	11
Stress resistance	DIN 52913		
16h, 50 MPa, 175°C		MPa	25
16h, 50 MPa, 300°C		MPa	/
Specific leak rate	DIN 3535-6		0.07
Thickness increase	ASTM F146		
Oil IRM 903, 5h, 150°C		%	8
ASTM Fuel B, 5h, 23°C		%	10
Compression modulus	DIN 28090-2		
At room temperature ε_{KSW}		%	8.5
At elevated temperature $\varepsilon_{WSW/200°C}$		%	25
Percentage creep relaxation	DIN 28090-2		
At room temperature ε_{KRW}		%	5.1
At elevated temperature $\varepsilon_{WRW/200°C}$		%	1.2
Max. operating conditions			
Peak temperature		°C/°F	280/536
Continuous temperature		°C/°F	220/428
- with steam		°C/°F	180/356
Pressure		bar/psi	80/1160

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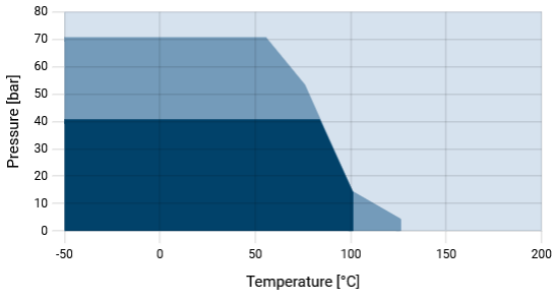
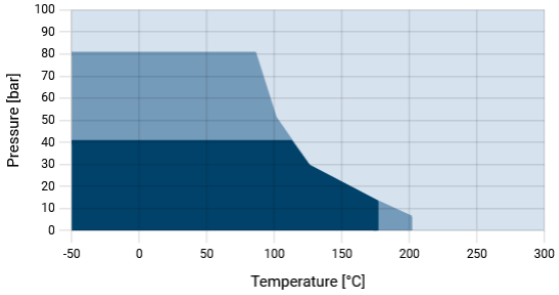
P-T DIAGRAM

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

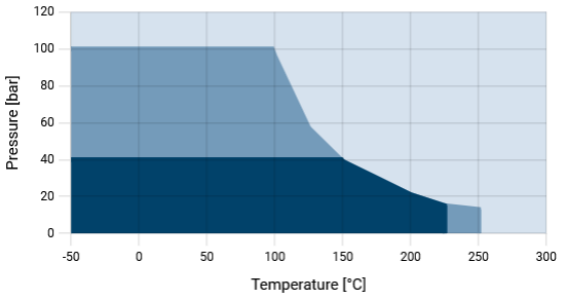
Agressive gasses



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.

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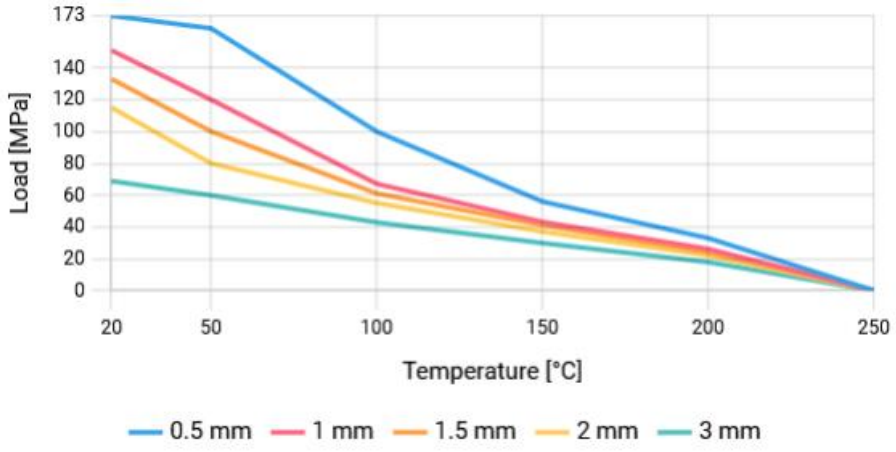
σ_{BO} DIAGRAM

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.

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