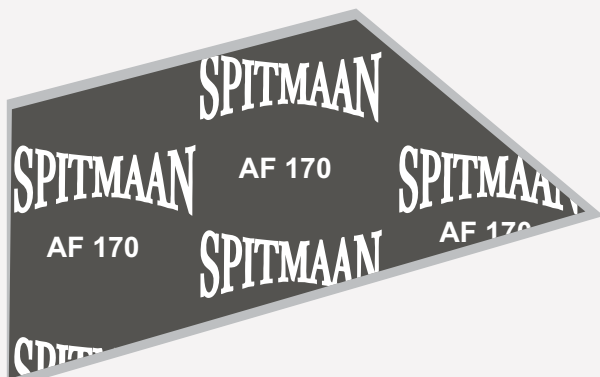




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**TOUGH
TO BEAT**

AF 170



TECHNICAL INFORMATION

Compliance	BS 7531 Grade X
Category	Non Asbestos
Line Callout Number	ASTM104F711999A9E99L13574M9
Colour	Black
Style	Non Metallic
	Metallic

Parameters	Standard	Unit	Value	
			Non Metallic	Metallic
Density	DIN 28090-2	gms/cc	1.65-2.00	1.65-2.00
Tensile Strength	ASTM F 152	Mpa	9.0-12.0	11.0-13.0
Compressibility	ASTM-F 36 J	%	≥ 10	≥ 10
Recovery	ASTM-F 36 J	%	≥ 50	≥ 50
Ignition Loss	ASTM-F 495-99a	%	≤ 30	≤ 30
Gas Permeability (Sealability against nitrogen)	BS 7531	ml/min.	≤ 1.00	≤ 1.00
Residual Stress	BS 7531 DIN 52913	Mpa	~25	~25
Flexibility @RT (Cracking, delaminating or distress)	BS 7531	---	OK	OK
Oil Absorption 5 H @ 150°C (Thickness/Mass)	BS 7531	%	≤ 5 / ≤ 10	≤ 5 / ≤ 10
Fuel B Absorption 5 H @ RT (Thickness/Mass)	ASTM F 146	%	≤ 5 / ≤ 10	≤ 5 / ≤ 10
Water Absorption 5 H @ 100°C (Thickness)	BS 7531	%	≤ 5	≤ 5
Short Term Temperature	-----	°C	600	650
Continous Service Temperature	-----	°C	450	550
Max. Continue Temperature with steam	-----	°C	425	525
Pressure	-----	bar	160	200



Composition

Aramid Fibres, Mineral Fibres, Carbon Fibres, Inorganic Fillers, HNBR Elastomer And Reinforced with Expanded Graphite. Optional Steel Wire Mesh Insert On Request.



**Recommended Applications/
Industries**

Premium Grade Gasketing Material with Excellent Thermal And Mechanical Properties. Suitable For Use In Oils, Solvents, Gases, IC Engines In Extreme Pressure And Temperature Conditions In Shipbuilding, Power Plants, Automobiles, Chemical And Fertilizer Industries. High Service Conditions.

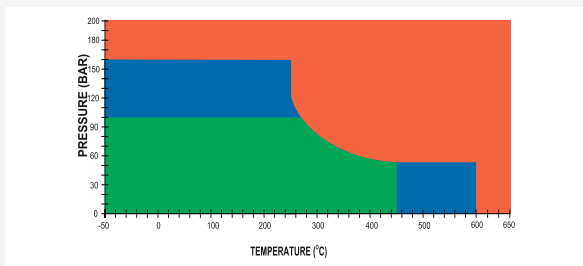


AVAILABLE SIZES

Standard Sheet Size (mm)	1600x4500/1500x6000/1500x1600/1500x1500/1500x2000 / 1500x3000/2000 x 6000/3000 x 3000		
Thickness (mm)	0.40 to 6.00 for Non Metallic & 0.50 to 6.00 for Metallic		
Thickness Tolerances (mm)	Upto & including 0.50 = ± 0.05		
	Over 0.50, Upto & including 1.00 = ± 0.10		
	Over 1, Upto & including 2.00 = ± 0.15		
Gasket Factors	Over 2.00, = ± 0.20		
	Thickness (mm)	"M" Factor	"Y" Factor (N/mm ²)
	0.80	3.50	44.80
	1.60	2.75	25.50
	3.20	2.00	11.00

Note:

- All colours are available with antistick coating.
- All metallic insert sheets are available with graphite finish.
- Metallic sheets are available in GI / SS mesh as required.



P-T DIAGRAM EN 1514-1, Type IBC, PN 40, DIN 28091-2/3.8, 2 mm

- 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 permissible combination of internal pressure and service temperature which can be applied simultaneously for a given gasket depending on its material type, thickness, size and tightness class. Given the 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.

For detailed selection criteria, technical information, installation guideline and a complete listing of local sales offices please visit www.spitmaan.com

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