

TECHNICAL INFORMATION

| | |
|---------------------|----------------------------|
| Compliance | BS 7531 Grade X |
| Category | Non Asbestos |
| Line Callout Number | ASTM104F711999A9E99L1537M9 |
| 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 | 10.0-12.0 | 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 | % | ≤ 6/≤ 10 | ≤ 5/≤ 10 |
| Fuel B Absorption 5 H @ RT (Thickness/Mass) | ASTM F 146 | % | ≤ 6/≤ 10 | ≤ 5/≤ 10 |
| Water Absorption 5 H @ 100°C (Thickness) | BS 7531 | % | ≤ 5 | ≤ 5 |
| Short Term Temperature | ----- | °C | 450 | 450 |
| Continuous Service Temperature | ----- | °C | 350 | 375 |
| Max. Continue Temperature with steam | ----- | °C | 300 | 300 |
| Pressure | ----- | bar | 150 | 160 |



Composition

Aramid Fibre, Mineral Fibres, Carbon Fibre, Inorganic Fillers And HNBR Elastomer. Optional Steel Wire Mesh Insert On Request.



Recommended Applications/ Industries

Premium Grade Gasketing Material Suitable For use in Super Heated Steam, Oils Automobiles, Ship Building, Power Plant Equipments, Fertilizers & Petrochemicals. High Service Conditions.

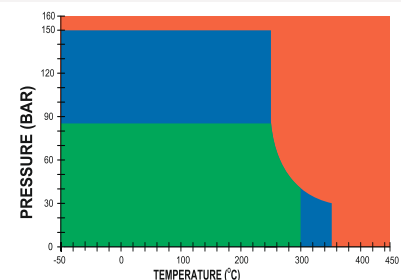


AVAILABLE SIZES

| | | | |
|---------------------------|---|------------|--------------------|
| Standard Sheet Size (mm) | 1600x4500/1500x6000/1500x1600/1500x1500/1500 x 2000 / 1500 x 3000/2000 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 | | |
| | Over 2.00, = ± 0.20 | | |
| Gasket Factors | Thickness (mm) | "M" Factor | "Y" Factor (N/mm²) |
| | 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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