

### TECHNICAL INFORMATION

|                     |                            |  |
|---------------------|----------------------------|--|
| Compliance          | IS 2712 Grade O/I          |  |
| Category            | Asbestos                   |  |
| Line Callout Number | ASTMF104F112999A9B9E99M9T7 |  |
| Colour              | Non Metallic               | Dark Grey/Black Graphited                      |
|                     | Metallic                   | With special metallic reinforcement To enhance |



### Suitable Industries/ Properties

Used in Pipelines and Apparatus of Petrochemical Fields/ Distillates, Solvents, Refrigerations, Oils and Petroleum Refining Industries. Also used in Steam Supplies, Automobiles, Shipbuilding & General Purposes.

| Parameters  | Standard | Unit               | Value        |            |
|---|----------|--------------------|--------------|------------|
|   |          |                    | Non Metallic | Metallic   |
| Density   | IS 2712  | g/cc               | 1.80-2.20    | 1.85-2.40  |
| Tensile Strength                                    | IS 2712  | Kg/cm <sup>2</sup> | ≥265         | ≥ 285      |
| Compressibility                                     | IS 2712  | %                  | 7-10         | 7-10       |
| Recovery  | IS 2712  | %                  | ≥ 50         | ≥50        |
| Ignition Loss                                       | IS 2712  | %                  | ≤ 22         | ≤ 22       |
| Stress Relaxation (Residual Stress)                 | IS 2712  | N/mm <sup>2</sup>  | 28           | 30         |
| Flexibility @RT(Cracking, delamination or distress) | IS 2712  | –                  | OK           | OK         |
| Oil Absorption 5 H @ 150°C (Thickness/Mass)         | IS 2712  | %                  | ≤ 10/ ≤ 10   | ≤ 10/ ≤ 10 |
| Fuel B Absorption 22 H @ RT (Thickness/Mass)        | IS 2712  | %                  | ≤ 10/ ≤ 10   | ≤ 10/ ≤ 10 |
| Water Absorption 5 H @ 100°C (Thickness/Mass)       | IS 2712  | %                  | ≤ 8          | ≤ 8        |
| Recommended Maximum Temperature                     | --       | °C                 | 560          | 600        |
| Recommended Maximum Pressure                        | –        | Kg/cm <sup>2</sup> | 150          | 160        |

#### Note:

- All metallic insert sheets are available with graphite finish.



### Product Description

A High Grade Asbestos Fibre Jointing & Fillers bonded with NBR Elastomers.



### Appropriate/Suitable Media

Recommended in Industrial processes with high contents of Aromatic substances, Sulphurous compounds & Chloric Hydrocarbons. Also suitable for Phenols, Refrigerants, Solvents and Antifreeze etc including Steam. (High Service Conditions)

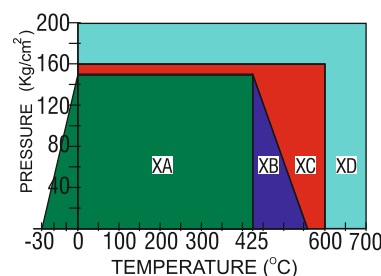


### AVAILABLE SIZES

|                           |   |
|---------------------------|---|
| Standard Sheet Size (mm)  | 1600/1500 x 1500 1600/1500 x 2000<br>1600/1500 x 3000 1600/1500 x 6000<br>1525 x 1650 1525 x 5000<br>2000 x 6000 2000 x 2000 3000 x 3000<br>1000 x 1000 2000 x 3000   |
| Thickness (mm)            | 0.40 to 6.00 for Non Metallic &<br>0.50 to 6.00 for Metallic  |
| Thickness Tolerances (mm) | Upto & including 0.50 = ± 0.05<br>Over 0.50, Upto & including 1.00 = ± 0.10<br>Over 1.00 Upto & including 2.00 = ± 0.15<br>Over 2.00 Upto & including 3.00 = ± 0.20<br>Over 3.00 Upto & including 4.00 = ± 0.30<br>Over 4.00 = ± 0.40 |

#### TYPICAL VALUES FOR A THICKNESS OF 1.60 mm

| Gasket Factors | Thickness (mm) | "M" Factor | "Y" Stress (Psi) |
|----------------|----------------|------------|------------------|
|                | 0.80           | 3.50       | 6500             |
|                | 1.60           | 2.75       | 3700             |
|                | 3.20           | 2.00       | 1600             |



#### PERFORMANCE CHART & RECOMMENDATION

Maximum Values of Temperature and Pressure should not be used simultaneously, they are given only as guidance. Maximum Temperature and Pressure depends not only on the type of gasket material but also on the application conditions such as thickness of material, nature of service medium, type of flange, surface stress etc.

- XA** General suitability using common installation practices under conditions of chemical compatibility
- XB** Maximum performance is ensured through appropriate measures for joint designs and gasket installations. Consultation is recommended.
- XC** Limited application area. Technical consultation is mandatory
- XD** Area not recommended

For detailed selection criteria, technical information, installation guideline and a complete listing of local sales offices please visit [www.spitmaan.com](http://www.spitmaan.com)

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