



Reg. No. QAIC/IN/047

# SPITMAAN

## CHAMPION JOINTINGS PVT. LTD.

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# COMPRESSED NON-ASBESTOS JOINTING SHEETS

*In Pursuit Of An Eco-friendly Sealing System*

(MANUFACTURED IN TECHNICAL COLLABORATION WITH M/s ECONOSTO -U.K.)

# SPITMAAN

**STD. SHEET SIZE : 1600 mm X 1500/4500mm**

**Nominal Sheet Thickness Approx : 0.4, 0.5, 0.75, 1.0, 1.5, 2.0, 3.0 mm & above**

### Gasket Selection :

Gaskets must maintain a seal for an acceptable period against all of the operational forces involved and to achieve this, there are eight important properties which any good gasket should possess:

- ❖ The gasket should not be porous to the fluid being sealed.
- ❖ The gasket should compress into the imperfections on the flange to create initial seal on application of sealing force.
- ❖ The gasket should not show significant creep under the influence of load and temperature. Such flow will allow the bolts to relax, reduce gasket surface stress and cause leakage.
- ❖ The gasket should be capable of catering to slight distortion between the flanges
- ❖ The gasket should withstand chemical attack from the media being handled
- ❖ The gasket has to be easily dismantled after use.
- ❖ The gasket should be able to withstand effects of temperature of the confined media.
- ❖ The gasket should not cause corrosion of the flange faces.

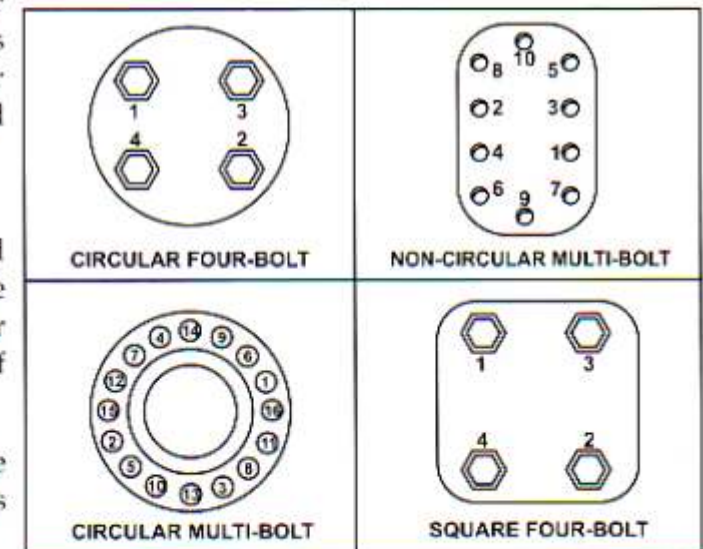
(Please visit our website for the questionnaire form, to be filled and sent to us for our guidance on appropriate style selection for any new/existing applications)

**Spitmaan** Asbestos free jointing sheets are manufactured on latest factory equipments and developed with the aid of research and scientific facts to take care of one and all of above factors combined with highly specialised technical knowledge of Engineers with experience of a life time. Our products meet with the increasingly exacting requirements in Engineering and chemical industries for contact gaskets on fixed sealing faces. **Spitmaan** Asbestos-free jointing sheets are manufactured to international quality standards, which our customers can depend upon. The operating temperature for Asbestos-free jointing sheet material is related to the thickness selected. Thinner materials offer better temperature and pressure properties.

#### Proper Bolting Procedure

The sequence in which bolts are tightened has a substantial bearing upon the distribution of contact area stress. Improper bolting may cock the flange out of parallel.







It is important for proper sealability that the flanges are clean and free from any serious defect.





# COMPRESSED NON - ASBESTOS JOINTING SHEETS - DATA SHEET

**SPITMAAN**

STYLE	PRODUCT PROFILE	* SERVICE CONDITIONS	TYPICAL PHYSICAL PROPERTIES	FLUID RESISTANCE			
				ASTM Oil No.3		Fuel B	
				Thickness Increase %	Mass Increase %	Thickness Increase %	Mass Increase %
 <p><b>AF 111</b></p>	<p>A cost effective product manufactured from ecofriendly natural cellulosic fibres bonded with suitable mix of elastomers.</p> <p>Colour: Red &amp; Green</p> <p>Also available with wiregauze reinforcement and antistick coating</p>	<p>General purpose gasket material suitable for use with oils, Solvents, Gases, Water, L.P. Steam and most dilute acids and alkalies (Low service conditions)</p> <p>Max. Operating Pressure : 25 bars</p> <p>Max. Short Term Service Temperature 400°C</p> <p>Max. Continuous Service Temperature 250°C</p> <p>Max. Operating Temperature for Steam 180°C</p>	<p>Density 1.75 g/cm<sup>3</sup></p> <p>Tensile Strength ASTM F 152 8.5 MPa</p> <p>Compressibility ASTM F 36 8 - 13%</p> <p>Residual Stress BS 7531 22 MPa</p> <p>Gas Permeability BS 7531 &lt; 0.5 cc/Min</p> <p>Recovery ASTM F 36 ≥ 45 %</p> <p>Water Absorbtion BS 7531 ≤ 5 %</p> <p>Ignition Loss ≤ 40 %</p>	≤ 10	≤ 10	≤ 10	≤ 10
 <p><b>AF 120</b></p>	<p>A compressed synthetic Aramid fibre jointing sheet bonded with elastomers to create a matrix of stability</p> <p>Colour : Green</p> <p>Also available with wiregauze reinforcement and antistick coating.</p>	<p>Suitable for light industrial applications</p> <p>Media : Water, Gases, Medium Pressure Steam, Dilute Acids/Alkalies</p> <p>(Medium Service Conditions)</p> <p>Max. Operating Pressure : 50 bars</p> <p>Max. Short term Service Temperature : 400°C</p> <p>Max. Continuous Service Temperature : 250°C</p> <p>Max. Operating Temperature for Steam : 200°C</p>	<p>Density 1.9 g/cm<sup>3</sup></p> <p>Tensile Strength ASTM F 152 11.5 MPa</p> <p>Compressibility ASTM F 36 8 - 11 %</p> <p>Residual Stress BS 7531 22 MPa</p> <p>Gas Permeability BS 7531 &lt; 0.5 cc/Min</p> <p>Recovery ASTM F 36 ≥ 45%</p> <p>Water Absorbtion BS 7531 ≤ 5 %</p> <p>Ignition Loss ≤ 30 %</p>	≤ 10	≤ 10	≤ 10	≤ 10
 <p><b>AF 139</b></p>	<p>A high quality jointing sheet based on synthetic Aramid fibres bonded with NBR elastomer.</p> <p>Colour: Orange</p> <p>Also available with wire gauze reinforcement and antistick coating.</p>	<p>Suitable for use in applications involving hydrocarbons such as oils and solvents, steam, gases, glycols and aqueous solutions.</p> <p>(Medium Service Conditions)</p> <p>Max. Operating Pressure : 80 bars</p> <p>Max. Short Term Service Temperature : 400°C</p> <p>Max. Continuous Service Temperature : 250°C</p> <p>Max. Operating Temperature for Steam : 200°C</p>	<p>Density 1.85 g/cm<sup>3</sup></p> <p>Tensile Strength ASTM F 152 14 MPa</p> <p>Compressibility ASTM F 36 8 - 12%</p> <p>Residual Stress BS 7531 22 MPa</p> <p>Gas Permeability BS 7531 &lt; 0.5 cc/min</p> <p>Recovery ASTM F 36 ≥ 40 %</p> <p>Water Absorbtion BS 7531 ≤ 5%</p> <p>Ignition Loss &lt; 35 %</p>	≤ 8	≤ 8	≤ 8	≤ 8
 <p><b>AF 159</b></p>	<p>A Premium grade jointing sheet based on special synthetic Aramid fibres bonded with nitrile elastomer</p> <p>Colour: Grey</p> <p>Also Available with wire gauze reinforcement and antistick coating</p>	<p>A universal grade suitable for many industria sealing applications. Media : Hot oils, fuels, Hydrocarbons and refrigerants.</p> <p>(High Service Conditions)</p> <p>Max. Operating Pressure : 150 bars</p> <p>Max. Short Term Service Temperature : 450°C</p> <p>Max. Continuous Service Temperature : 250°C</p> <p>Max. Operating Temperature for steam : 250°C</p>	<p>Density 1.7 g/cm<sup>3</sup></p> <p>Tensile Strength ASTM F 152 15 MPa</p> <p>Compressibility ASTM F 36 10 - 14%</p> <p>Residual Stress BS 7531 25 MPa</p> <p>Gas Permeability BS 7531 &lt; 0.1 cc/Min</p> <p>Recovery ASTM F 36 ≥ 45 %</p> <p>Water Absorbtion BS 7531 ≤ 5 %</p> <p>Ignition Loss ≤ 35 %</p>	≤ 8	≤ 8	≤ 8	≤ 8
 <p><b>AF 154</b></p>	<p>A superior performance compressed jointing sheet incorporating a blend of special heat resisting Aramid fibres with a high quality nitrile elastomer binder</p> <p>Colour: Yellow</p> <p>Also available with wire guaze reinforcement and anti stick coating.</p>	<p>Suitable for use with Oils, Solvents, Gases Steam, Dilute Acids and alkalies.</p> <p>(High Service Conditions)</p> <p>Max. Operating Pressure : 150 bars</p> <p>Max. Short Term Service Temperature : 450°C</p> <p>Max. Continuous Service Temperature : 250°C</p> <p>Max. Operating Temperature for steam : 240°C</p>	<p>Density 1.8 g/cm<sup>3</sup></p> <p>Tensile Strength ASTM F 152 15 MPa</p> <p>Compressibility ASTM F 36 7 - 11 %</p> <p>Residual Stress BS 7531 25 MPa</p> <p>Gas Permeability BS 7531 &lt; 0.1 cc/min</p> <p>Recovery ASTM F 36 ≥ 50 %</p> <p>Water Absorbtion BS 7531 ≤ 5 %</p> <p>Ignition Loss ≤ 35 %</p>	≤ 8	≤ 8	≤ 8	≤ 8
 <p><b>AF 160</b></p>	<p>A top quality acid resistant compressed synthetic Aramid fibre jointing sheet bonded with special binders.</p> <p>Colour: Blue</p> <p>Available with antistick coating.</p>	<p>Acid resistant grade. Recommended for use against hot, Concentrated Organic/ inorganic/mineral acids.</p> <p>Max. Operating Pressure : 150 bars</p> <p>Max. Short Term Service Temperature : 250°C</p> <p>Max. Continuous Service Temperature : 210°C</p> <p>Max. Operating Temperature for steam : 210°C</p>	<p>Density 1.8 g/cm<sup>3</sup></p> <p>Tensile Strength ASTM F 152 15 MPa</p> <p>Compressibility ASTM F 36 8 - 12 %</p> <p>Residual Stress BS 7531 25 MPa</p> <p>Gas Permeability BS 7531 &lt; 0.1 cc/min</p> <p>Recovery ASTM F 36 ≥ 50 %</p> <p>Water Absorbtion BS 7531 ≤ 5 %</p> <p>Ignition Loss ≤ 35%</p>	≤ 8	≤ 8	≤ 8	≤ 8

\* Note : As the company's products are used for a multiplicity of purposes and as the company has no control over the method of their application or use, the company excludes all conditions or warranties, expressed or implied by statute or otherwise, as to their products and or their fitness for any particular purpose. Any technical Co-operation between the company and the customer is given or the customer's assistance only and without liability on the part of the Company.