

Champion Compressed Non-Asbestos Fiber Jointing Sheets (CNAF)

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STYLE	PRODUCT PROFILE	SERVICE CONDITIONS
	<p>Champion Style AF110 Water</p> <p>Champion Style AF110 is a reliable yet, cost-effective product manufactured from ecofriendly natural cellulose bonded with suitable mix of elastomers.</p> <p>Champion Style AF-110 Sheets are available in Non-Metallic and also in Metallic option (with wire reinforcement) with anti stick coating. This grade is produced in brown color.</p>	<p>General purpose gasketing 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 : 300°C Max.</p> <p>Continuous Service Temperature : 200°C Max.</p> <p>Operating Temperature for steam : 180°C</p>
	<p>Champion Style AF120 General</p> <p>Champion Style AF120 Non -Metalic is general purpose BS7531 Grade Y Asbestos-Free (AF) Jointing sheet. It is comprised of compressed aramid fibres and bonded with a combination of other functional fibres with a elastomer binder to create matrix of stability. This grade is produced in Green color.</p>	<p>Suitable for light industrial applications.</p> <p>Media: Water, Gases, Medium pressure Steam, Dilute Acids / Alkalies (Medium Service Conditions).</p> <p>Max. Operating Pressure : 50 bars</p> <p>Max. Short Term Service Temperature : 350°C Max.</p> <p>Continuous Service Temperature : 250°C Max.</p> <p>Operating Temperature for steam : 200°C</p>
	<p>Champion Style AF120 Metallic</p> <p>Champion Style AF120 Metallic is general purpose Asbestos-Free (AF) Jointing sheet. It is comprised of compressed aramid fibres and bonded with a combination of other functional fibres with a elastomer binder with wire re-inforcement to create matrix of stability & anti-stick properties which minimises adhesion of the gasket to flange surfaces even at elevated temperatures, resulting in reduced removal time. This grade is produced in Graphited Black color.</p>	<p>Suitable for light industrial applications.</p> <p>Media: Water, Gases, Medium pressure Steam, Dilute Acids / Alkalies (Medium Service Conditions).</p> <p>Max. Operating Pressure : 50 bars</p> <p>Max. Short Term Service Temperature : 350°C Max.</p> <p>Continuous Service Temperature : 250°C Max.</p> <p>Operating Temperature for steam : 200°C</p>
	<p>Champion Style AF139 Steam</p> <p>Champion Style AF139 is higher performance BS7531 Grade X Asbestos-Free (AF) Jointing sheet. It is comprised of compressed aramid fibres and bonded with a combination of functional fibres with a elastomer binder to create a matrix of stability for thermal and chemical medium service. It is available in Non-Metallic and also in Metallic option (with wire re-inforcement & anti-stick properties which minimizes adhesion of the gasket to flange surfaces even at elevated temperatures, resulting in reduced removal time). This grade is produced in Orange color.</p>	<p>Suitable for medium industrial applications and hydrocarbons.</p> <p>Media: Water, Gases, High pressure Steam, Oils, Solvents, Gases, Glycols, Aqueous Solutions (Medium Service Conditions).</p> <p>Max. Operating Pressure : 80 bars</p> <p>Max. Short Term Service Temperature : 400°C Max</p> <p>Continuous Service Temperature : 280°C Max.</p> <p>Operating Temperature for steam : 250°C</p>
	<p>Champion Jointing Style AF154 High Pressure</p> <p>Champion Jointing Style AF154 is special purpose BS7531 Grade X Asbestos-Free (AF) Jointing sheet. It is blend of superior heat resisting compressed aramid fibres bonded with a combination of other functional fibres along with nitrile elastomeric binders.</p> <p>Champion AF-154 Sheets are available in Non-Metallic and also anti-stick properties which minimizes adhesion of the gasket to flange surfaces even at elevated temperatures, resulting in reduced removal time). This grade is produced in Yellow color.</p>	<p>Suitable for use with Oils, Solvents, Gases, Steam, Dilute Acids and alkalies. (High service conditions).</p> <p>Max. Operating Pressure : 150 bars</p> <p>Max. Short Term Service Temperature : 400°C</p> <p>Continuous Service Temperature : 300°C Max.</p> <p>Operating Temperature for steam : 280°C</p>

Typical Physical Properties	Standard	Values	FLUID RESISTANCE			
			ASTM Oil No. 3		Fuel B	
Density		1-7 to 2.2 gm/cm ³	Thickness Increase %	Mass Increase %	Thickness Increase %	Mass Increase %
Min Tensile Strength	ASTM F 152	7 N/mm ²	≤ 10	≤ 10	≤ 10	≤ 10
Compressibility	ASTM F 36	8-11%				
Residual Stress	BS7531	≥ 22MPA				
Gas Permeability	BS7531	< 0.5 cc/Min				
Recovery	ASTM F 36	≥ 45%				
Water Absorption	BS7531	≤ 5%				
Ignition Loss		≤ 40%				
Density		1-7 to 2.2 gm/cm ³				
Min Tensile Strength	ASTM F 152	10 N/mm ²	≤ 10	≤ 10	≤ 10	≤ 10
Compressibility	ASTM F 36	8-11%				
Residual Stress	BS7531	< 22MPA				
Gas Permeability	BS7531	< 0.5 cc/Min				
Recovery	ASTM F 36	≥ 45%				
Water Absorption	BS7531	≤ 5%				
Ignition Loss		≤ 30%				
Density		1-7 to 2.2 gm/cm ³				
Min Tensile Strength	ASTM F 152	10 N/mm ²	≤ 8	≤ 8	≤ 8	≤ 8
Compressibility	ASTM F 36	8-11%				
Residual Stress	BS7531	< 22MPA				
Gas Permeability	BS7531	< 0.5 cc/Min				
Recovery	ASTM F 36	≥ 45%				
Water Absorption	BS7531	≤ 5%				
Ignition Loss		≤ 30%				
Density		1-7 to 2.2 gm/cm ³				
Min Tensile Strength	ASTM F 152	11.5N/mm ²	≤ 8	≤ 8	≤ 8	≤ 8
Compressibility	ASTM F 36	8-11%				
Residual Stress	BS7531	< 22MPA				
Gas Permeability	BS7531	< 0.5 cc/Min				
Recovery	ASTM F 36	≥ 45%				
Water Absorption	BS7531	≤ 5%				
Ignition Loss		≤ 30%				
Density		1-7 to 2.2 gm/cm ³				
Min Tensile Strength	ASTM F 152	15 N/mm ²	≤ 8	≤ 8	≤ 8	≤ 8
Compressibility	ASTM F 36	7-11%				
Residual Stress	BS7531	< 25MPA				
Gas Permeability	BS7531	< 0.1 cc/Min				
Recovery	ASTM F 36	≥ 50%				
Water Absorption	BS7531	≤ 5%				
Ignition Loss		≤ 35%				

General Disclaimer: All information given is intended as/for general guidelines. Product offered is one of the many consumable items among various parts that constitute the equipment. In view of the various variable operating conditions/equipment condition/usability beyond the scope of our purview, any form of guarantee/warranty on the performance cannot be given nor implied. The purchaser/user is expected to understand the products application/suitability well before use. We hereby clearly and amply disclaim the liability for incidental/sequential damages arising out of equipment damage/injury or any other complications/claim rising out of the use/utility of products.
 * The information in this chart /data sheet should be used as a general guide to the selection of suitable material. Maximum temperature and pressure capabilities do not necessarily operate together for all gasket thickness and service conditions. In view of technical progress designs are subject to change without notice.

Environment-friendly Engineered Fluid Sealing and Heat Insulation Solutions

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STYLE	PRODUCT PROFILE	SERVICE CONDITIONS
	<p>Champion Jointing Style AF154 Metallic Champion Jointing Style AF154 Metallic is special purpose BS7531 Grade X Asbestos-Free (AF) Jointing sheet. It is blend of superior heat resisting compressed aramid fibres bonded with a combination of other functional fibres along with nitrile elastomeric binders with wire re-inforcement to create matrix of stability & anti-stick properties which minimises adhesion of the gasket to flange surfaces even at elevated temperatures, resulting in reduced removal time. This grade is produced in Graphited Black color.</p>	<p>Suitable for use with Oils, Solvents, Gases, Steam, Dilute Acids and alkalis. (High service conditions). Max. Operating Pressure : 150 bars Max. Short Term Service Temperature : 400°C Continuous Service Temperature : 300°C Max. Operating Temperature for steam : 280°C</p>
	<p>Champion Jointing Style AF159 Oil Champion Jointing Style AF159 is special purpose BS7531 Grade X Asbestos-Free (AF) Jointing sheet. It is blend of superior heat resisting compressed aramid fibres bonded with a combination of functional fibres along with nitrile elastomeric binders (NBR). Champion AF-159 Sheets are available in Non-Metallic and also in Metallic option (with wire re-inforcement & anti-stick properties which minimizes adhesion of the gasket to flange surfaces even at elevated temperatures, resulting in reduced removal time). This grade is produced in black color.</p>	<p>A universal grade suitable for many industrial sealing applications. Media: Hot oils, fuels, Hydrocarbons and refrigerants. (High service conditions). Max. Operating Pressure : 150 bars Max. Short Term Service Temperature : 400°C Max. Continuous Service Temperature : 300°C Max. Operating Temperature for steam : 280°C</p>
	<p>Champion Jointing Style AF160 Acid Champion Jointing Style AF160 Acid is special purpose BS7531 Grade X Asbestos-Free (AF) Jointing sheet. It is blend of superior heat resisting compressed aramid fibres bonded with a combination of functional fibres along with nitrile elastomeric binders (NBR). Champion AF-160 Sheets are available only in Non-Metallic. This grade is produced in Off-White color.</p>	<p>Acid resistant grade. Recommended for use against hot, Concentrated organic/inorganic/mineral acids. Max. Operating Pressure : 100 bars Max. Short Term Service Temperature : 300°C Max. Continuous Service Temperature : 250°C Max. Operating Temperature for steam : 210°C</p>
	<p>Champion Jointing Style AF190 Performance Champion Jointing Style AF190 is a Premium grade high temperature, pressure resistance compressed Asbestos-Free (AF) Universal Jointing sheet consisting of premium grade of synthetic Aramid fibers, heat dissipating graphite, carbon bonded with HNBR elastomers, additives and specialty chemicals. This grade is produced in Dark Grey color.</p>	<p>An Performance grade has excellent resistance to high temperature/steam applications, oils, hydro carbons, solvents, fuels, refrigerants, gas, acids. Max. Operating Pressure : 150 bars Max. Short Term Service Temperature : 400°C Max. Continuous Service Temperature : 350°C Max. Operating Temperature for steam : 300°C</p>
	<p>Champion Jointing Style AF190 Metallic Champion Jointing Style AF190 Metallic is a Premium grade high temperature, pressure resistance compressed Asbestos-Free (AF) Universal Jointing sheet consisting of premium grade of synthetic Aramid fibers, heat dissipating graphite, carbon bonded with HNBR elastomers, additives and specialty chemicals with wire re-inforcement to create matrix of stability & anti-stick properties which minimises adhesion of the gasket to flange surfaces even at elevated temperatures, resulting in reduced removal time. This grade is produced in Graphited Black color.</p>	<p>An Performance grade has excellent resistance to high temperature/steam applications, oils, hydro carbons, solvents, fuels, refrigerants, gas, acids. Max. Operating Pressure : 170 bars Max. Short Term Service Temperature : 500°C Max. Continuous Service Temperature : 450°C Max. Operating Temperature for steam : 300°C</p>

Typical Physical Properties	Standard	Values	FLUID RESISTANCE			
			ASTM Oil No. 3		Fuel B	
Density		1-7 to 2.2 gm/cm ³				
Min Tensile Strength	ASTM F 152	15 N/mm ²	Thickness Increase %	Mass Increase %	Thickness Increase %	Mass Increase %
Compressibility	ASTM F 36	7-11%	≤ 8	≤ 8	≤ 8	≤ 8
Residual Stress	BS7531	< 25MPA				
Gas Permeability	BS7531	< 0.1 cc/Min				
Recovery	ASTM F 36	≥ 50%				
Water Absorption	BS7531	≤ 5%				
Ignition Loss		≤ 35%				
Density		1-7 to 2.2 gm/cm ³				
Tensile Strength	ASTM F 152	15 N/mm ²	≤ 8	≤ 8	≤ 8	≤ 8
Compressibility	ASTM F 36	7-11%				
Residual Stress	BS7531	< 25MPA				
Gas Permeability	BS7531	< 0.1 cc/Min				
Recovery	ASTM F 36	≥ 50%				
Water Absorption	BS7531	≤ 5%				
Ignition Loss		≤ 35%				
Density		1-7 to 2.2 gm/cm ³	≤ 8	≤ 8	≤ 8	≤ 8
Tensile Strength	ASTM F 152	10 N/mm ²				
Compressibility	ASTM F 36	7-11%				
Residual Stress	BS7531	< 25MPA				
Gas Permeability	BS7531	< 0.1 cc/Min				
Recovery	ASTM F 36	≥ 50%				
Water Absorption	BS7531	≤ 5%				
Ignition Loss		≤ 35%				
Density		1-7 to 2.2 gm/cm ³	≤ 8	≤ 8	≤ 8	≤ 8
Tensile Strength	ASTM F 152	17 N/mm ²				
Compressibility	ASTM F 36	7-11%				
Residual Stress	BS7531	< 25MPA				
Gas Permeability	BS7531	< 0.1 cc/Min				
Recovery	ASTM F 36	≥ 50%				
Water Absorption	BS7531	≤ 5%				
Ignition Loss		≤ 35%				