# Champion Compressed Non-Asbestos Fiber Jointing Sheets (CNAF) QUALITY APPROVED BY -

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General Discl beyond the sc

TYLE	PRODUCT PROFILE	SERVICE CONDITIONS	Туріс
.0	Champion Style AF110 Water		Density
JOINTINO AF TIQ	Champion Style AF110 is a reliable yet,	General purpose gaskting material suitable for use with Oils,	Min Te
(中)]]	cost-effective product manufactured from ecofriendly natural cellulose bonded with suitable	Solvents, Gases, Water, L.P. Steam and most dilute acids and alkalies (Low service conditions).	Compr
a Cal	mix of elastomers.	Max. Operating Pressure : 25 bars	Residu
ADDINION OF	Champion Style AF-110 Sheets are available in	Max. Short Term Service Temperature : 300°C Max.	Gas Pe
3.1.4	Non-Metallic and also in Metallic option (with wire reinforcement )with anti stick coating. This grade is	Continuous Service Temperature : 200°C Max.	Recov
.3.	produced in <b>brown</b> color.	Operating Temperature for steam : 180°C	Water
AND			Ignitior
	Champion Style AF120 General		Density
	Champion Style AF120 Non -Metalic is general	Suitable for light industrial applications.	Min Ten
DHAMPION JOINTING	purpose BS7531 Grade Y Asbestos-Free (AF) Jointing sheet. It is comprised of compressed	Media: Water, Gases, Medium pressure Steam, Dilute Acids /	Compre
Image: Constraint of the second se	aramid fibres and bonded with a combination of	Alkalies (Medium Service Conditions).	Residua
	other functional fibres with a elastomer binder to create matrix of stability. This grade is produced in	Max. Operating Pressure : 50 bars	Gas Pe
Distanting	Green color.	Max. Short Term Service Temperature : 350°C Max.	Recove
AF120		Continuous Service Temperature : 250°C Max.	Water A
en rest		Operating Temperature for steam : 200°C	Ignition
AF120	Champion Style AF120 Metallic		Density
	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	Suitable for light industrial applications.	Min Ten
		Media: Water, Gases, Medium pressure Steam, Dilute Acids /	Compre
AF120		Alkalies (Medium Service Conditions).	Residua
And the second		Max. Operating Pressure : 50 bars	Gas Pe
<b>B</b>	minimises adhesion of the gasket to flange	Max. Short Term Service Temperature : 350°C Max.	Recove
AF120	surfaces even at elevated temperatures, resulting in reduced removal time. This grade is produced in	Continuous Service Temperature : 250°C Max.	Water A
Tester .	Graphited Black color.	Operating Temperature for steam : 200°C	Ignition
AF 139	Champion Style AF139 Steam		Density
AF 129	Champion Style AF139 is higher performance BS7531	Suitable for medium industrial applications and	Min Ten
	Grade X Asbestos-Free (AF) Jointing sheet. It is comprised of compressed aramid fibres and bonded	hydrocarbons.	Compre
AF 139	with a combination of functional fibres with a elastomer binder to create a matrix of stability for thermal and	Media: Water, Gases, High pressure Steam, Oils, Solvents, Gases, Glycols, Aqueous Solutions (Medium Service	Residua
1	chemical medium service. It is available in Non-Metallic and also in Metallic option (with wire re-inforcement &	Conditions).	Gas Per
CON S	anti-stick properties which minimizes adhesion of the gasket to flange surfaces even at elevated temperatures, resulting in reduced removal time). This	Max. Operating Pressure : 80 bars	Recove
AF 129		Max. Short Term Service Temperature : 400°C Max Continuous Service Temperature : 280°C Max.	Water A
	grade is produced in <b>Örange</b> color.	Operating Temperature for steam : 250°C	Ignition
JOSHTING AF154	Champion Jointing Style AF154 High Pressure		Density
2	Champion Jointing Style AF154 is special purpose	Suitable for usewith Oils, Solvents, Gases, Steam, Dilue Acids	Min Ten
	BS7531 Grade X Asbestos-Free (AF) Jointing sheet. It is blend of superior heat resisting compressed aramid	and alkalies. (High service conditions).	Compre
154 Charanth Jontines	fibres bonded with a combination of other functional	Max. Operating Pressure : 150 bars	Residua
Par	fibres along with nitrile elastomeric binders.	Max. Short Term Service Temperature : 400°C	Gas Pe
SH NG	Champion AF-154 Sheets are available in Non-Metallic and also anti-stick properties which minimizes	Continuous Service Temperature : 300°C Max.	Recove
AF154	adhesion of the gasket to flange surfaces even at elevated temperatures, resulting in reduced removal	Operating Temperature for steam : 280°C	Water A
0	time). This grade is produced in Yellow color.		Ignition
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indicate logic and part of products and part 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.

Typical Physical Properties	Standard	Values	FLUID RESISTANCE				
Density		1-7 to 2.2 gm/cm <sup>3</sup>	ASTM Oil No. 3		Fuel B		
Min Tensile Strength	ASTM F 152	7 N/mm <sup>2</sup>	Thikness Increase %	Mass Increase %	Thikness Increase %	Mass Increase %	
Compressibility	ASTM F 36	8-11%	increase //	increase //	increase //		
Residual Stress	BS7531	≥ 22MPA		≤10	≤10	≤10	
Gas Permeability	BS7531	< 0.5 cc/Min					
Recovery	ASTM F 36	≥ 45%	≤10				
Water Absorption	BS7531	≤ 5%					
Ignition Loss		≤ 40%					
Density		1-7 to 2.2 gm/cm <sup>3</sup>					
Min Tensile Strength	ASTM F 152	10 N/mm <sup>2</sup>		≤10			
Compressibility	ASTM F 36	8-11%				≤10	
Residual Stress	BS7531	< 22MPA					
Gas Permeability	BS7531	< 0.5 cc/Min	≤10		≤10		
Recovery	ASTM F 36	≥ 45%					
Water Absorption	BS7531	≤ 5%					
Ignition Loss		≤ 30%					
Density		1-7 to 2.2 gm/cm <sup>3</sup>		≤8	≤8		
Min Tensile Strength	ASTM F 152	10 N/mm <sup>2</sup>				≤8	
Compressibility	ASTM F 36	8-11%					
Residual Stress	BS7531	< 22MPA	~ 0				
Gas Permeability	BS7531	< 0.5 cc/Min	≤8				
Recovery	ASTM F 36	≥ 45%					
Water Absorption	BS7531	≤ 5%					
Ignition Loss		≤ 30%					
Density		1-7 to 2.2 gm/cm <sup>3</sup>					
Min Tensile Strength	ASTM F 152	11.5N/mm <sup>2</sup>		≤8	≤8	≤8	
Compressibility	ASTM F 36	8-11%					
Residual Stress	BS7531	< 22MPA					
Gas Permeability	BS7531	< 0.5 cc/Min	≤8				
Recovery	ASTM F 36	≥ 45%					
Water Absorption	BS7531	≤ 5%					
Ignition Loss		≤ 30%					
Density		1-7 to 2.2 gm/cm <sup>3</sup>			≤8	≤8	
Min Tensile Strength	ASTM F 152	15 N/mm <sup>2</sup>		≤8			
Compressibility	ASTM F 36	7-11%					
Residual Stress	BS7531	< 25MPA	≤8				
Gas Permeability	BS7531	< 0.1 cc/Min					
Recovery	ASTM F 36	≥ 50%					
Water Absorption	BS7531	≤ 5%					
Ignition Loss		≤ 35%					

### Environment-friendly Engineered Fluid Sealing and Heat Insulation Solutions



## Champion Compressed Non-Asbestos Fiber Jointing Sheets (CNAF)

### QUALITY APPROVED BY - (EIL)

STYLE	PRODUCT PROFILE	SERVICE CONDITIONS	Typical Physical Properties	Standard	Values	FLUID RESISTANCE				
	Champion Jointing Style AF154 Metallic		Density	1-7 to 2.2 gm/cn		ASTM Oil No. 3		Fue	Fuel B	
THE DO	Champion Jointing Style AF154 Metallic is special	Suitable for usewith Oils, Solvents, Gases, Steam, Dilue Acids	Min Tensile Strength	ASTM F 152	15 N/mm <sup>2</sup>	Thikness Increase %	Mass Increase %	Thikness Increase %	Mass Increase %	
AFISA Contract AFISA Contract AFISA Contract AFISA Contract AFISA Contract AFISA	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	Max. Operating Pressure : 150 bars Max. Short Term Service Temperature : 400°C Continuous Service Temperature : 300°C Max. Operating Temperature for steam : 280°C	Compressibility	ASTM F 36	7-11%		≤8		≤8	
			Residual Stress	BS7531	< 25MPA	≤8		≤8		
			Gas Permeability	BS7531	< 0.1 cc/Min					
			Recovery	ASTM F 36	≥ 50%					
			Water Absorption	BS7531	≤ 5%					
	temperatures, resulting in reduced removal time. This grade is produced in <b>Graphited Black</b> color.		Ignition Loss		≤ 35%					
	Champion Jointing Style AF159 Oil Champion Jointing Style AF159 is special purpose	A universal grade suitable for many industrial sealing applications. <b>Media:</b> Hot oils, fuels, Hydrocarbons and refrigerants. (High service conditions).	Density		1-7 to 2.2 gm/cm <sup>3</sup>					
The Aller			Tensile Strength	ASTM F 152	15 N/mm <sup>2</sup>					
Aporteur Accorector Accorector	BS7531 Grade X Asbestos-Free(AF) Jointing sheet. It is blend of superior heat resisting compressed aramid		Compressibility	ASTM F 36	7-11%					
(S)	fibres bonded with a combination of functional fibres along with nitrile elastomeric binders (NBR).		Residual Stress	BS7531	< 25MPA					
The North	Champion AF-159 Sheets are available in Non-Metallic	Max. Operating Pressure : 150 bars	Gas Permeability	BS7531	< 0.1 cc/Min	≤8	≤8	≤8	≤8	
	and also in Metallic option (with wire re-inforcement & anti-stick properties which minimizes adhesion of the gasket to flange surfaces even at elevated	Max. Short Term Service Temperature : 400°C Max.	Recovery	ASTM F 36	≥ 50%	-				
		Continuous Service Temperature : 300°C Max.	Water Absorption	BS7531	≤ 5%					
	temperatures, resulting in reduced removal time). This grade is produced in <b>black</b> color.	Operating Temperature for steam : 280°C	Ignition Loss		≤ 35%					
JOINTING AF 160			D:\ADMIN\Downloads\golden-orr	nament-collec	tion7 to 2.2 gm/cm <sup>3</sup>		+			
	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	Acid resitant grade. Recommended for use against hot,	Tensile Strength	ASTM F 152	10 N/mm <sup>2</sup>	≤8	≤8	≤8	≤8	
Channell JOINTING AF 160		Concentrated organic/inorganic/mineral acids.	Compressibility	ASTM F 36	7-11%					
LIGHTING AF 160 DAAFIGH JOINTING AF 160 DAAFIGH AF 160 AF 160		Max. Operating Pressure : 100 bars	Residual Stress	BS7531	< 25MPA					
		Max. Short Term Service Temperature : 300°C Max.	Gas Permeability	BS7531	< 0.1 cc/Min					
		Continuous Service Temperature : 250°C	Recovery	ASTM F 36	≥ 50%					
	Non-Metallic. This grade is produced in	Max. Operating Temperature for steam : 210°C	Water Absorption	BS7531	≤ 5%					
, Q	Off-White color.		Ignition Loss		≤ 35%					
Chinada			Density		1-7 to 2.2 gm/cm <sup>3</sup>					
AFGERER A	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	An Performance grade has excellent resistance to high	Tensile Strength	ASTM F 152	15 N/mm <sup>2</sup>		- 0	- 9	~ 9	
		temperature/steam applications, oils, hydro carbons,	Compressibility	ASTM F 36	7-11%					
		solvents, fuels, refrigerants, gas, acids.	Residual Stress	BS7531	< 25MPA					
	Aramid fibers, heat dissipating graphite, carbon	Max. Operating Pressure : 150 bars	Gas Permeability	BS7531	< 0.1 cc/Min	≤8	≤8	≤8	≤8	
	bonded with HNBR elastomers, additives and specialty chemicals. This grade is produced in	Max. Short Term Service Temperature : 400°C Max.	Recovery	ASTM F 36	≥ 50%	-				
	Dark Grey color.	Continuous Service Temperature : 350°C Max.	Water Absorption	BS7531	<u> </u>					
		Operating Temperature for steam : 300°C	Ignition Loss	207301	≤ 35%					
LENISSPIN										
JOINTING AP160	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		Density		1-7 to 2.2 gm/cm <sup>3</sup>	≤8	≤8	≤8		
0		An Performance grade has excellent resistance to high temperature/steam applications, oils, hydro carbons,	Tensile Strength	ASTM F 152	17 N/mm <sup>2</sup>				≤8	
F . C.		solvents, fuels, refrigerants, gas, acids.	Compressibility	ASTM F 36	7-11%					
		Max. Operating Pressure : 170 bars	Residual Stress	BS7531	< 25MPA					
	HNBR elastomers, additives and specialty chemicals with wire re-inforcement to create matrix of stability &	Max. Short Term Service Temperature : 500°C Max.	Gas Permeability	BS7531	< 0.1 cc/Min	-				
	anti-stick properties which minimises adhesion of the	Continuous Service Temperature : 450°C Max.	Recovery	ASTM F 36	≥ 50%	-				
	gasket to flange surfaces even at elevated temperatures, resulting in reduced removal time. This	Operating Temperature for steam : 300°C	Water Absorption	BS7531	≤ 5%					
	grade is produced in Graphited Black color.		Ignition Loss		≤ 35%					



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