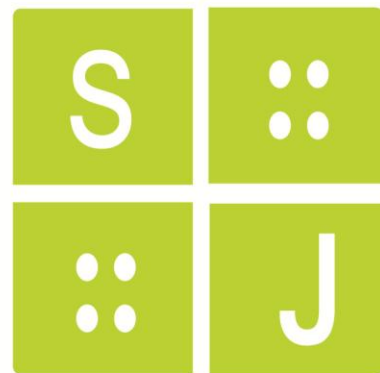


Non Asbestos Jointing Sheets

With World Class Quality



Superlite Jointings Private Limited

(AN IATF : 16949-2016 COMPANY)

Superlite®

(AN IATF : 16949-2016 COMPANY)

Manufacturers & Exporters of :

JOINTING GASKET MATERIAL

(Non Asbestos)

Correspondence Address :

D-12 & 13 Sector 17, Kavi Nagar Industrial Area
Ghaziabad - 201002 (U.P.) India
Fax. +91-120-4261053

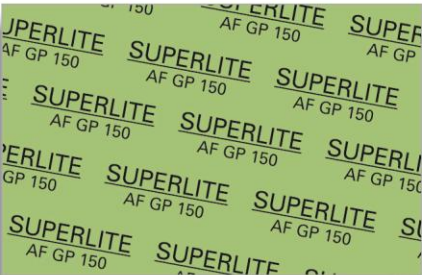
Plant Address :

Village Galand, Dibarsi Road, Jindal Nagar,
Hapur - 201015 (U.P.) India
Ph.: +91 120 2677 516 Fax: +91 120 2677 517
E-mail: mkt.superlite@gmail.com, sales@superlitejointings.com
Website : www.superlitejointings.com

Quality improvement is a continuous process at our plant. Data given in this catalogue is subject to revision without notice.

GASKET MATERIALS

SUPERLITE®
AF GP 150

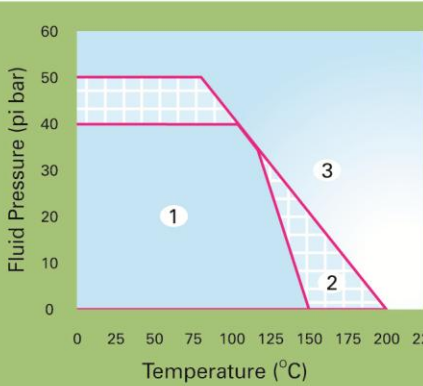


- Organic Fibre
- Nitrille Binder
- Mineral Fibre

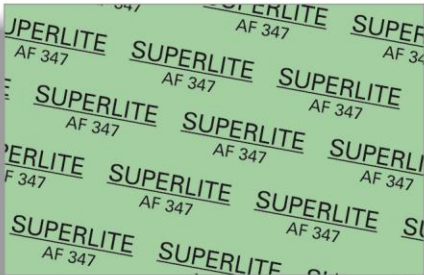
Application

Suitable for oils, fuels, lubricants, alcohols, gases, hydrocarbons, steam, water, cooling liquids, most diluted acids and alkalies for high stress condition.

Properties	Testing Method	Unit	Specification
1. Density	ASTM F 1315	g/cm ³	1.6-1.9
2. Compressibility	ASTM F 36 J	%	7-17
3. Recovery	ASTM F 36 J	%	≥ 40
4. Tensile Strength (Across Grain)	ASTM F 152	N/mm2	≥ 7
5. Creep Relaxation (0.80 mm)	ASTM F 38 B	%	≥ 40
6. Stress Relaxation	DIN 52913		
a. 16 hours, 175°C	50 Mpa	Mpa	≥ 15
b. 16 hours, 300°C	50 Mpa	Mpa	
7. Gas Solubility (0.80 mm)	ASTM F 37 B	ml/hour	≤ 1.0
8. Cold/Hot Compression (0.80 mm)			
a. Thickness decrease at 23°C		%	
b. Thickness decrease at 300°C		%	
9. ASTM OIL NO 3 (5 HRS, 150°C)			
Thickness Increase		%	≤ 15
Weight Increase		%	≤ 20
10. Fuel B (5 hrs, 23°C)			
Thickness Increase		%	≤ 20
Weight Increase		%	≤ 20
11. Water (5 hrs, 100°C)			
Thickness Increase		%	≤ 10
Weight Increase		%	≤ 15
12. Thickness Increase			
65% H2SO4 Acid (48 hrs, 23°C)		%	
96% H2SO4 Acid (48 hrs, 23°C)		%	
40% HNO3 Acid (48 hrs, 23°C)		%	
ASTM Line call out			ASTM F 104 F 71223E34A9B9M4
Max. Operating Conditions			
Max. Peak Temperature		°c	200
Max. Operating Temperature		°c	150
Max. Operating Pressure		Bar	50



SUPERLITE®
AF - 347

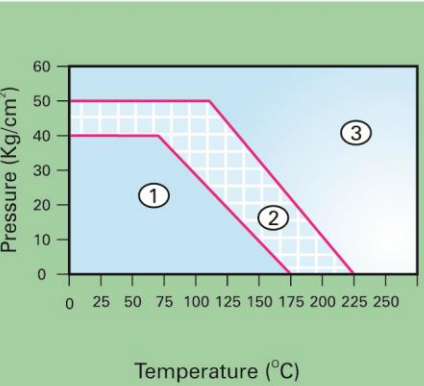


- Organic Fibre
- Nitrille Binder
- Mineral Fibre

Application

General purpose grade suitable for low pressure steam , water , oils , fuels and inert gases for low stress conditions with anti stick coating .

Properties	Testing Method	Unit	Specification
Max. Peak Temperature		°C	225
Max. Operating Temperature		°C	175
Max. Operating Pressure		kg/cm ²	50
Density	ASTM F 1315	g/cm ³	1.6-1.9
Compressibility	ASTM F 36 J	%	7-17
Recovery	ASTM F 36 J	%	≥ 40
Tensile Strength	ASTM F 152	N/mm ²	≥ 10.5
Stress Relaxation (175°C)	DIN 52913	N/mm ²	≥ 18
Gas Sealability	ASTM F 37 B	ml/hour.	≤ 1.0
Cold/Hot Compression (0.80 mm)			
a. Thickness decrease at 23°C		%	
b. Thickness decrease at 300°C		%	
ASTM oil No.3 (5h, 150°C)	ASTM F 146		
Thickness Increase		%	≤ 10
Weight Increase		%	≤ 15
ASTM Fuel B (5h, 23°C)	ASTM F 146		
Thickness Increase		%	≤ 10
Weight Increase		%	≤ 15
Water (5h, 100°C)	ASTM F 146		
Thickness Increase		%	≤ 10
Weight Increase		%	≤ 15
Thickness Increase			
65% H2SO4 Acid (48 hrs, 23°C)		%	
96% H2SO4 Acid (48 hrs, 23°C)		%	
40% HNO3 Acid (48 hrs, 23°C)		%	
ASTM Line call out			ASTM F 104 F 71223E34A9B9M4
Max. Operating Conditions			
Max. Peak Temperature		°c	200
Max. Operating Temperature		°c	150
Max. Operating Pressure		Bar	50



SUPERLITE®
AF GP STEEL 200

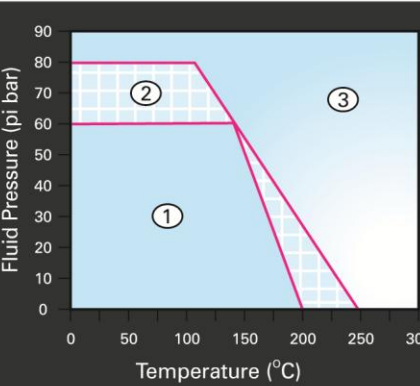


- In Organic Fibre, Mineral Fibre
- Nitrile Binder
- Wire Reinforced

Application

General purpose Metallic grade suitable for low pressure steam, water, oils, fuels and inert gases for low stress conditions.

Properties	Testing Method	Unit	Specification
1. Density	ASTM F 1315	g/cm ³	1.7-2.0
2. Compressibility	ASTM F 36 J	%	7-17
3. Recovery	ASTM F 36 J	%	≥ 40
4. Tensile Strength (Across Grain)	ASTM F 152	N/mm2	≥ 8
5. Creep Relaxation (0.80 mm)	ASTM F 38 B	%	≤ 40
6. Stress Relaxation	DIN 52913		
a. 16 hours, 175°C	50 Mpa	Mpa	≥ 17
b. 16 hours, 300°C	50 Mpa	Mpa	
7. Gas Solubility (0.80 mm)	ASTM F 37 B	ml/hour	≤ 1.0
8. Cold/Hot Compression (0.80 mm)			
a. Thickness decrease at 23°C		%	
b. Thickness decrease at 300°C		%	
9. ASTM OIL NO 3 (5 HRS, 150°C)			
Thickness Increase		%	≤ 15
Weight Increase		%	≤ 20
10. Fuel B (5 hrs, 23°C)			
Thickness Increase		%	≤ 20
Weight Increase		%	≤ 20
11. Water (5 hrs, 100°C)			
Thickness Increase		%	≤ 10
Weight Increase		%	≤ 15
12. Thickness Increase			
65% H2SO4 Acid (48 hrs, 23°C)		%	
96% H2SO4 Acid (48 hrs, 23°C)		%	
40% HNO3 Acid (48 hrs, 23°C)		%	
ASTM Line call out			ASTM F 104 F 71223E34A9B9M9
Max. Operating Conditions			
Max. Peak Temperature		°c	250
Max. Operating Temperature		°c	200
Max. Operating Pressure		Bar	80



GASKET MATERIALS

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AF - 482

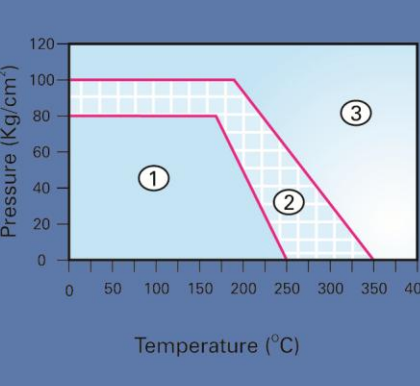


- Aramid Fibre
- Mineral Fibre
- Rockwool Fibre
- High Viscose Nitrile Binder

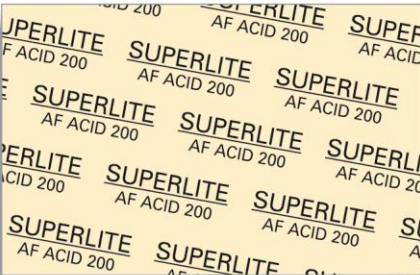
Application

Suitable for chemical , mechanical and good thermal properties , Treated as universal grade and suitable for all medium application.

Properties	Testing Method	Unit	Specification
Max. Peak Temperature		°C	350
Max. Operating Temperature		°C	250
Max. Operating Pressure		kg/cm ²	100
Density	ASTM F 1315	g/cm ³	1.60 -1.90
Compressibility	ASTM F 36 J	%	7 -17
Recovery	ASTM F 36 J	%	≥ 50
Tensile Strength	ASTM F 152	N/mm ²	≥ 8
Stress Relaxation (300°C)	DIN 52913	N/mm ²	≥ 16
Gas Sealability (0.80 mm)	ASTM F 37 B	ml/min.	≤ 1.0
ASTM oil no.3 (5h, 150°C)	ASTM F 146		
Thickness Increase		%	≤ 5
Weight Increase		%	≤ 10
ASTM Fuel B (5h, 23°C)	ASTM F 146		
Thickness Increase		%	≤ 7
Weight Increase		%	≤ 12
Water (5h, 100°C)	ASTM F 146		
Thickness Increase		%	≤ 5
Weight Increase		%	≤ 10
Cold/Hot Compression (0.80 mm)			
a. Thickness decrease at 23°C		%	
b. Thickness decrease at 300°C		%	
Thickness Increase			
65% H2SO4 Acid (48 hrs, 23°C)		%	
96% H2SO4 Acid (48 hrs, 23°C)		%	
40% HNO3 Acid (48 hrs, 23°C)		%	
ASTM Line call out			ASTM F 104 F 71200A9M5
Max. Operating Conditions			
Max. Peak Temperature		°c	250
Max. Operating Temperature		°c	200
Max. Operating Pressure		Bar	60



SUPERLITE®
AF ACID 200

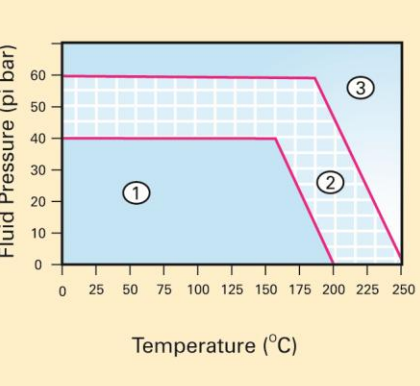


- Aramid Fibre
- CSM Binder
- Organic Fibre

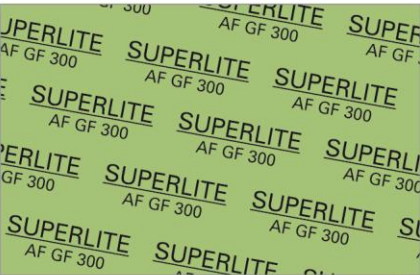
Application

Premium quality acid jointing material, A Chemical grade material suitable for most acids, alkalies fuels and refrigerants for aggressive, environments.

Properties	Testing Method	Unit	Specification
1. Density	ASTM F 1315	g/cm ³	1.6-1.9
2. Compressibility	ASTM F 36 J	%	7-17
3. Recovery	ASTM F 36 J	%	≥ 40
4. Tensile Strength (Across Grain)	ASTM F 152	N/mm2	≥ 10.5
5. Stress Relaxation	DIN 52913		
a. 16 hours, 175°C	50 Mpa	Mpa	≥ 35
b. 16 hours, 300°C	50 Mpa	Mpa	≤ 25
6. Gas Solubility (0.80 mm)	ASTM F 37 B	ml/hour	≤ 1.0
7. Cold/Hot Compression (0.80 mm)			
a. Thickness decrease at 23°C		%	
b. Thickness decrease at 300°C		%	
8. ASTM OIL NO 3 (5 HRS, 150°C)			
Thickness Increase		%	≤ 10
Weight Increase		%	≤ 10
9. Fuel B (5 hrs, 23°C)			
Thickness Increase		%	≤ 10
Weight Increase		%	≤ 10
10. Water (5 hrs, 100°C)			
Thickness Increase		%	≤ 10
Weight Increase		%	≤ 10
11. Thickness Increase			
65% H2SO4 Acid (48 hrs, 23°C)		%	≤ 15
96% H2SO4 Acid (48 hrs, 23°C)		%	≤ 15
40% HNO3 Acid (48 hrs, 23°C)		%	≤ 15
ASTM Line call out			ASTM F 104 F 71200A9M5
Max. Operating Conditions			
Max. Peak Temperature		°c	250
Max. Operating Temperature		°c	200
Max. Operating Pressure		Bar	60



SUPERLITE®
AF GF 300

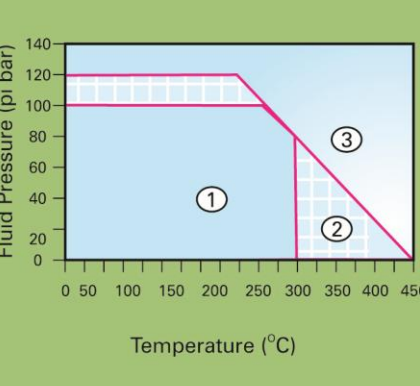


- Glass Fibre
- Aramid Fibre
- Nitrile Binder

Application

Suitable for oils, fuels, lubricants, alcohols, gases, hydrocarbons, steam, water, cooling liquids, most diluted acids and alkalies for high stress condition.

Properties	Testing Method	Unit	Specification
1. Density	ASTM F 1315	g/cm ³	1.6-1.9
2. Compressibility	ASTM F 36 J	%	5-15
3. Recovery	ASTM F 36 J	%	≥ 50
4. Tensile Strength (Across Grain)	ASTM F 152	N/mm2	≥ 10.5
5. Stress Relaxation	DIN 52913		
a. 16 hours, 175°C	50 Mpa	Mpa	≥ 35
b. 16 hours, 300°C	50 Mpa	Mpa	≤ 25
6. Gas Solubility (0.80 mm)	ASTM F 37 B	ml/hour	≤ 1.0
7. Cold/Hot Compression (0.80 mm)			
a. Thickness decrease at 23°C		%	
b. Thickness decrease at 300°C		%	
8. ASTM OIL NO 3 (5 HRS, 150°C)			
Thickness Increase		%	≤ 10
Weight Increase		%	≤ 10
9. Fuel B (5 hrs, 23°C)			
Thickness Increase		%	≤ 10
Weight Increase		%	≤ 10
10. Water (5 hrs, 100°C)			
Thickness Increase		%	≤ 10
Weight Increase		%	≤ 10
11. Thickness Increase			
65% H2SO4 Acid (48 hrs, 23°C)		%	
96% H2SO4 Acid (48 hrs, 23°C)		%	
40% HNO3 Acid (48 hrs, 23°C)		%	
ASTM Line call out			ASTM F 104 F 71291E12A9B3M5
Max. Operating Conditions			
Max. Peak Temperature		°c	450
Max. Operating Temperature		°c	300
Max. Operating Pressure		Bar	120





Superlite

RECOMMENDATION CHART

	AF GP 150	AF 347	AF Oil 220	AF Oil 250	AF Acid 200	AF 482	AF C 350	AF 572	AF GF 300		AF GP 150	AF 347	AF Oil 220	AF Oil 250	AF Acid 200	AF 482	AF C 350	AF 572	AF GF 300		AF GP 150	AF 347	AF Oil 220	AF Oil 250	AF Acid 200	AF 482	AF C 350	AF 572	AF GF 300
Acetaldehyde	■	■	■	■	■	■	■	■	■	Ethyl alcohol	■	■	■	■	■	■	■	■	■	Oxalic Acid	■	■	■	■	■	■	■	■	■
Acetic Acid 10%	■	■	■	■	■	■	■	■	■	Ethyl chloride	■	■	■	■	■	■	■	■	■	Oxygen	■	■	■	■	■	■	■	■	
Acetic Acid 100%	■	■	■	■	■	■	■	■	■	Ethylene	■	■	■	■	■	■	■	■	■	Palmitic acid	■	■	■	■	■	■	■	■	
Acetic ester	■	■	■	■	■	■	■	■	■	Ethylene glycol	■	■	■	■	■	■	■	■	■	Pentane	■	■	■	■	■	■	■	■	
Acetone	■	■	■	■	■	■	■	■	■	Formic Acid 10%	■	■	■	■	■	■	■	■	■	Perchloroethylene	■	■	■	■	■	■	■	■	
Acetylene	■	■	■	■	■	■	■	■	■	Formic Acid 85%	■	■	■	■	■	■	■	■	■	Phenol	■	■	■	■	■	■	■	■	
Adipic Acid	■	■	■	■	■	■	■	■	■	Formaldehyde	■	■	■	■	■	■	■	■	■	Phosphoric acid	■	■	■	■	■	■	■	■	
Air	■	■	■	■	■	■	■	■	■	Freon 12	■	■	■	■	■	■	■	■	■	Potassium acetate	■	■	■	■	■	■	■	■	
Alum	■	■	■	■	■	■	■	■	■	Freon 22	■	■	■	■	■	■	■	■	■	Potassium bicarbonate	■	■	■	■	■	■	■	■	
Aluminium Acetate	■	■	■	■	■	■	■	■	■	Fuel Oil	■	■	■	■	■	■	■	■	■	Potassium carbonate	■	■	■	■	■	■	■	■	
Aluminium Chlorate	■	■	■	■	■	■	■	■	■	Gasoline	■	■	■	■	■	■	■	■	■	Potassium chloride	■	■	■	■	■	■	■	■	
Aluminium Chloride	■	■	■	■	■	■	■	■	■	Glycerine	■	■	■	■	■	■	■	■	■	Potassium dichromate	■	■	■	■	■	■	■	■	
Ammonia	■	■	■	■	■	■	■	■	■	Heptane	■	■	■	■	■	■	■	■	■	Potassium hydroxide	■	■	■	■	■	■	■	■	
Ammonium bicarbonate	■	■	■	■	■	■	■	■	■	Hydraulic Oil [Mineral]	■	■	■	■	■	■	■	■	■	Potassium iodide	■	■	■	■	■	■	■	■	
Aluminium Chloride	■	■	■	■	■	■	■	■	■	Hydraulic Oil [Phosphate ester type]	■	■	■	■	■	■	■	■	■	Potassium nitrate	■	■	■	■	■	■	■	■	
Ammonium hydroxide	■	■	■	■	■	■	■	■	■	Hydraulic Oil [Glycol based]	■	■	■	■	■	■	■	■	■	Potassium permanganate	■	■	■	■	■	■	■	■	
Amyl acetate	■	■	■	■	■	■	■	■	■	Hydrazine	■	■	■	■	■	■	■	■	■	Propane	■	■	■	■	■	■	■	■	
ASTM Oil No. 3	■	■	■	■	■	■	■	■	■	Hydrochloric acid 20 %	■	■	■	■	■	■	■	■	■	Salicylic acid	■	■	■	■	■	■	■	■	
Asphalt	■	■	■	■	■	■	■	■	■	Hydrochloric acid 36 %	■	■	■	■	■	■	■	■	■	Silicone Oil	■	■	■	■	■	■	■	■	
Barium Chloride	■	■	■	■	■	■	■	■	■	Hydrofluoric acid 10 %	■	■	■	■	■	■	■	■	■	Soap	■	■	■	■	■	■	■	■	
Benzene	■	■	■	■	■	■	■	■	■	Hydrogen	■	■	■	■	■	■	■	■	■	Sodium aluminate	■	■	■	■	■	■	■	■	
Benzoic acid	■	■	■	■	■	■	■	■	■	Isobutane	■	■	■	■	■	■	■	■	■	Sodium bicarbonate	■	■	■	■	■	■	■	■	
Boric acid	■	■	■	■	■	■	■	■	■	Isooctane	■	■	■	■	■	■	■	■	■	Sodium bisulphite	■	■	■	■	■	■	■	■	
Borex	■	■	■	■	■	■	■	■	■	Isopropyl alcohol	■	■	■	■	■	■	■	■	■	Sodium carbonate	■	■	■	■	■	■	■	■	
Butane	■	■	■	■	■	■	■	■	■	Kerosene	■	■	■	■	■	■	■	■	■	Sodium chloride	■	■	■	■	■	■	■	■	
Butyle alcohol	■	■	■	■	■	■	■	■	■	Lead acetate	■	■	■	■	■	■	■	■	■	Sodium cyanide	■	■	■	■	■	■	■	■	
Butyl alcohol	■	■	■	■	■	■	■	■	■	Lead arsenate	■	■	■	■	■	■	■	■	■	Sodium hydroxide	■	■	■	■	■	■	■	■	
Butyric acid	■	■	■	■	■	■	■	■	■	Lime Water	■	■	■	■	■	■	■	■	■	Sodium isulphate	■	■	■	■	■	■	■	■	
Calcium chloride	■	■	■	■	■	■	■	■	■	Magnesium sulphate	■	■	■	■	■	■	■	■	■	Sodium sulphide	■	■	■	■	■	■	■	■	
Calcium hydroxide	■	■	■	■	■	■	■	■	■	Malic acid	■	■	■	■	■	■	■	■	■	Starch	■	■	■	■	■	■	■	■	
Carbon disulphide	■	■	■	■	■	■	■	■	■	Methane	■	■	■	■	■	■	■	■	■	Steam	■	■	■	■	■	■	■	■	
Carbon dioxide	■	■	■	■	■	■	■	■	■	Methanol	■	■	■	■	■	■	■	■	■	Stearic acid	■	■	■	■	■	■	■	■	
Chlorororm	■	■	■	■	■	■	■	■	■	Methyl chloride	■	■	■	■	■	■	■	■	■	Sugar	■	■	■	■	■	■	■	■	
Chlorine, dry	■	■	■	■	■	■	■	■	■	Methylene dichloride	■	■	■	■	■	■	■	■	■	Sulphuric acid 20 %	■	■	■	■	■	■	■	■	
Chlorine, wet	■	■	■	■	■	■	■	■	■	Methyl ethyl ketone	■	■	■	■	■	■	■	■	■	Sulphuric acid 50 %	■	■	■	■	■	■	■	■	
Chromic acid	■	■	■	■	■	■	■	■	■	Milk	■	■	■	■	■	■	■	■	■	Tar	■	■	■	■	■	■	■	■	
Citric acid	■	■	■	■	■	■	■	■	■	Mineral Oil type ASTM no. 1	■	■	■	■	■	■	■	■	■	Tartaric acid	■	■	■	■	■	■	■	■	
Copper acetate	■	■	■	■	■	■	■	■	■	Naptha	■	■	■	■	■	■	■	■	■	Toluene	■	■	■	■	■	■	■	■	
Cresol	■	■	■	■	■	■	■	■	■	Nitric acid 20 %	■	■	■	■	■	■	■	■	■	Transformer oil	■	■	■	■	■	■	■	■	
Cyclohexanol	■	■	■	■	■	■	■	■	■	Nitric acid 40 %	■	■	■	■	■	■	■	■	■	Trichlorethylene	■	■	■	■	■	■	■	■	
Cyclohexanone	■	■	■	■	■	■	■	■	■	Nitrogen	■	■	■	■	■	■	■	■	■	Water	■	■	■	■	■	■	■	■	
Decaline	■	■	■	■	■	■	■	■	■	Octane	■	■	■	■	■	■	■	■	■	White Sprit	■	■	■	■	■	■	■	■	
Ethyle acetate	■	■	■	■	■	■	■	■	■	Oleic acid	■	■	■	■	■	■	■	■	■	Xylene	■	■	■	■	■	■	■	■	

Superlite®
(AN IATF : 16949-2016 COMPANY)

Compressed Non Asbestos Jointing Sheets

All information and recommendations given in this brochure are correct to the best of our knowledge. Since the operating conditions at the use end are beyond our control. The given information may we used as guide lines. Superlite reserve the right to change product design and properties without notice.

Temperature and pressure represent maximum values and should not be used simultaneously. They are given only as guidance, since they but also on the assembly conditions. Very important factors are : thickness of the gasket material, nature of service medium, type of flange and surface stress. Steam application requires special consideration.

We can suply both side graphite sheet, anti stick and anti corrosion on request.

Available Sheet Sizes With Us

- 1) 1500 x 1500
1500 x 3000
1500 x 4500

3) 1270 x 1270
1270 x 3810
- 2) 1500 x 1000
1500 x 2000
1500 x 4000

4) 1000 x 1000
2000 x 3000

- Recommended

■ Recommendation depends on operating conditions

■ Not Recommended

The recommendations made here are intended to be a guideline for the selection of the suitable gasket quality. Because the function and durability of the products depend upon a number of factors, the data may not be used to support any warranty claims.

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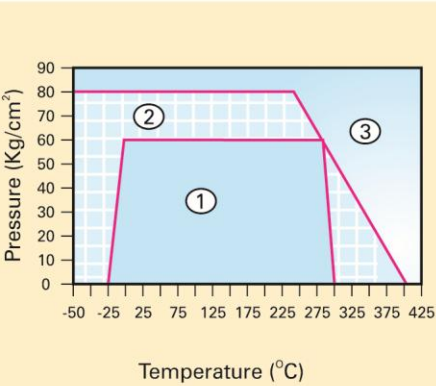
AF - 572



- Aramid Fibre
 - Glass Fibre
 - Rockwool Fibre
 - High Viscose Nitrile Binder
- Application

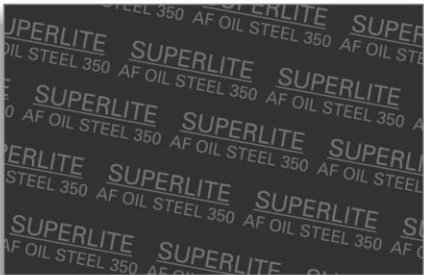
Optimized combination of Synthetic fibres with Glass and Aramid Fibres bound with HNBR . Premium Quality jointing with high temperature resistance in steam and water as well as excellent resistance to oils and hydrocarbons .

Properties	Testing Method	Unit	Specification
Max. Peak Temperature	UPTO	°C	-50 to 400
Max. Operating Temperature	UPTO	°C	-25 to 300
Max. Operating Pressure		kg/cm ²	80
Density	ASTM F 1315	g/cm ³	1.60 -1.90
Compressibility	ASTM F 36 J	%	5 -15
Recovery	ASTM F 36 J	%	≥ 50
Tensile Strength	ASTM F 152	N/mm ²	≥ 8
Stress Relaxation (300°C)	DIN 52913	N/mm ²	≥ 30
Gas Sealability	ASTM F 37 B	ml/min.	≤1.0
ASTM oil no.3 (5h, 150°C)	ASTM F 146		
Thickness Increase		%	≤ 5
Weight Increase		%	≤10
ASTM Fuel B (5h, 23°C)	ASTM F 146		
Thickness Increase		%	≤ 5
Weight Increase		%	≤12
Water (5h, 100°C)	ASTM F 146		
Thickness Increase		%	≤ 5
Weight Increase		%	≤ 5
Cold/Hot Compression (0.80 mm)			
a. Thickness decrease at 23°C		%	
b. Thickness decrease at 300°C		%	
Thickness Increase			
65% H2SO4 Acid (48 hrs, 23°C)		%	
96% H2SO4 Acid (48 hrs, 23°C)		%	
40% HNO3 Acid (48 hrs, 23°C)		%	



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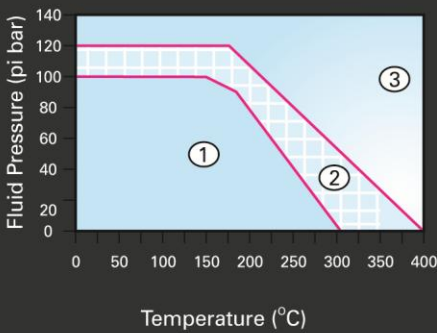
AF OIL STEEL 350



- Mineral Fibre, Aramid Fibre
 - Nitrile Binder
 - Wire Reinforced
- Application

A Premium metallic grade suitable for oils fuels, lubricants alcohols, hydrocarbons, steam water cooling liquids, most diluted acid and alkalies for medium stress condition.

Properties	Testing Method	Unit	Specification
1. Density	ASTM F 1315	g/cm ³	1.7-2.0
2. Compressibility	ASTM F 36 J	%	7-17
3. Recovery	ASTM F 36 J	%	≥ 40
4. Tensile Strength (Across Grain)	ASTM F 152	N/mm2	≥ 13.7
5. Stress Relaxation	DIN 52913		
a. 16 hours, 175°C	50 Mpa	Mpa	≥ 25
b. 16 hours, 300°C	50 Mpa	Mpa	
6. Gas Solubility (0.80 mm)	ASTM F 37 B	ml/hour	≤1.0
7. Cold/Hot Compression (0.80 mm)			
a. Thickness decrease at 23°C		%	
b. Thickness decrease at 300°C		%	
8. ASTM OIL NO 3 (5 HRS, 150°C)			
Thickness Increase		%	≤ 10
Weight Increase		%	≤ 10
9. Fuel B (5 hrs, 23°C)			
Thickness Increase		%	≤ 10
Weight Increase		%	≤ 10
10. Water (5 hrs, 100°C)			
Thickness Increase		%	≤ 10
Weight Increase		%	≤ 10
11. Thickness Increase			
65% H2SO4 Acid (48 hrs, 23°C)		%	
96% H2SO4 Acid (48 hrs, 23°C)		%	
40% HNO3 Acid (48 hrs, 23°C)		%	
ASTM Line call out			
Max. Operating Conditions			
Max. Peak Temperature	°c		400
Max. Operating Temperature	°c		300
Max. Operating Pressure	Bar		120



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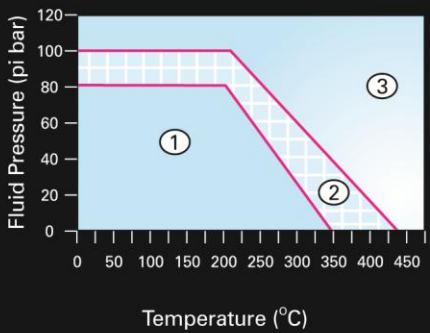
AF C 350



- Carbon Fibre
 - Nitrile Binder
 - Aramid Fibre
- Application

Suitable for oils, fuels, lubricants, alcohols, gases, hydrocarbons, steam, water, cooling liquids, most diluted acids and alkalies for medium stress condition.

Properties	Testing Method	Unit	Specification
1. Density	ASTM F 1315	g/cm ³	1.6-1.9
2. Compressibility	ASTM F 36 J	%	7-17
3. Recovery	ASTM F 36 J	%	≥ 40
4. Tensile Strength (Across Grain)	ASTM F 152	N/mm2	≥ 8
5. Stress Relaxation	DIN 52913		
a. 16 hours, 175°C	50 Mpa	Mpa	≥ 30
b. 16 hours, 300°C	50 Mpa	Mpa	≤ 20
6. Gas Solubility (0.80 mm)	ASTM F 37 B	ml/hour	≤1.0
7. Cold/Hot Compression (0.80 mm)			
a. Thickness decrease at 23°C		%	
b. Thickness decrease at 300°C		%	
8. ASTM OIL NO 3 (5 HRS, 150°C)			
Thickness Increase		%	≤ 10
Weight Increase		%	≤ 10
9. Fuel B (5 hrs, 23°C)			
Thickness Increase		%	≤ 10
Weight Increase		%	≤ 10
10. Water (5 hrs, 100°C)			
Thickness Increase		%	≤ 10
Weight Increase		%	≤ 10
11. Thickness Increase			
65% H2SO4 Acid (48 hrs, 23°C)		%	
96% H2SO4 Acid (48 hrs, 23°C)		%	
40% HNO3 Acid (48 hrs, 23°C)		%	
ASTM Line call out			
Max. Operating Conditions			
Max. Peak Temperature	°c		440
Max. Operating Temperature	°c		350
Max. Operating Pressure	Bar		100



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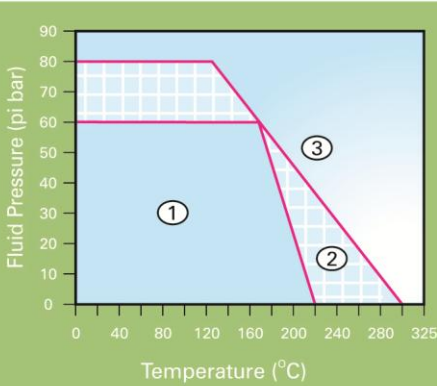
AF OIL 220



- Organic Fibre, Mineral Fibre
 - Nitrile Binder
 - Aramid Fibre
- Application

Suitable for oils, fuels, lubricants, alcohols, gases, hydrocarbons, steam, water, cooling liquids, most diluted acids and alkalies for low stress condition.

Properties	Testing Method	Unit	Specification
1. Density	ASTM F 1315	g/cm ³	1.6-1.9
2. Compressibility	ASTM F 36 J	%	7-17
3. Recovery	ASTM F 36 J	%	≥ 50
4. Tensile Strength (Across Grain)	ASTM F 152	N/mm2	≥ 9.5
5. Creep Relaxation (0.80 mm)	ASTM F 38 B	%	≤ 50
6. Stress Relaxation	DIN 52913		
a. 16 hours, 175°C	50 Mpa	Mpa	22
b. 16 hours, 300°C	50 Mpa	Mpa	
7. Gas Solubility (0.80 mm)	ASTM F 37 B	ml/hour	≤ 1.0
8. Cold/Hot Compression (0.80 mm)			
a. Thickness decrease at 23°C		%	
b. Thickness decrease at 300°C		%	
9. ASTM OIL NO 3 (5 HRS, 150°C)			
Thickness Increase		%	≤ 5
Weight Increase		%	≤ 10
10. Fuel B (5 hrs, 23°C)			
Thickness Increase		%	≤ 7
Weight Increase		%	≤ 10
11. Thickness Increase			
65% H2SO4 Acid (48 hrs, 23°C)		%	
96% H2SO4 Acid (48 hrs, 23°C)		%	
40% HNO3 Acid (48 hrs, 23°C)		%	
ASTM Line call out			
Max. Operating Conditions			
Max. Peak Temperature	°c		300
Max. Operating Temperature	°c		220
Max. Operating Pressure	Bar		80



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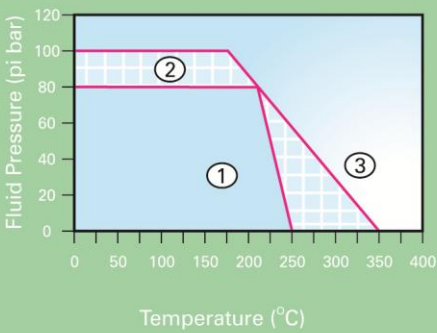
AF OIL 250



- Aramid Fibre
 - Nitrile Binder
 - Mineral Fibre
- Application

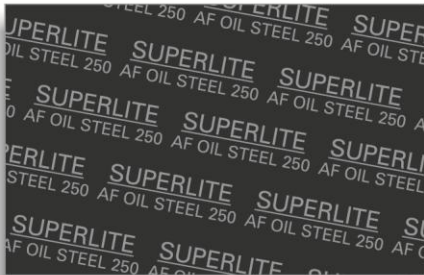
Suitable for oils, fuels, lubricants, alcohols, gases, hydrocarbons, steam, water, cooling liquids, most diluted acids and alkalies for medium stress condition.

Properties	Testing Method	Unit	Specification
1. Density	ASTM F 1315	g/cm ³	1.7-2.0
2. Compressibility	ASTM F 36 J	%	5-15
3. Recovery	ASTM F 36 J	%	≥ 50
4. Tensile Strength (Across Grain)	ASTM F 152	N/mm2	≥ 10.5
5. Creep Relaxation (0.80 mm)	ASTM F 38 B	%	≤ 30
6. Stress Relaxation	DIN 52913		
a. 16 hours, 300°C	50 Mpa	Mpa	≥ 18
7. Gas Solubility (0.80 mm)	ASTM F 37 B	ml/hour	≤ 1.0
8. Cold/Hot Compression (0.80 mm)			
a. Thickness decrease at 23°C		%	
b. Thickness decrease at 300°C		%	
9. ASTM OIL NO 3 (5 HRS, 150°C)			
Thickness Increase		%	≤ 10
Weight Increase		%	≤ 10
10. Fuel B (5 hrs, 23°C)			
Thickness Increase		%	≤ 10
Weight Increase		%	≤ 10
11. Water (5 hrs, 100°C)			
Thickness Increase		%	≤ 10
Weight Increase		%	≤ 10
12. Thickness Increase			
65% H2SO4 Acid (48 hrs, 23°C)		%	
96% H2SO4 Acid (48 hrs, 23°C)		%	
40% HNO3 Acid (48 hrs, 23°C)		%	
ASTM Line call out			
Max. Operating Conditions			
Max. Peak Temperature	°c		350
Max. Operating Temperature	°c		250
Max. Operating Pressure	Bar		100



SUPERLITE®

AF OIL STEEL 250



- Mineral Fibre, Aramid Fibre
 - Nitrile Binder
 - Wire Reinforced
- Application

A Premium metallic grade suitable for oils fuels, lubricants alcohols, hydrocarbons, steam water cooling liquids, most diluted acid and alkalies for medium stress condition.

Properties	Testing Method	Unit	Specification
1. Density	ASTM F 1315	g/cm ³	1.7-2.0
2. Compressibility	ASTM F 36 J	%	5-15
3. Recovery	ASTM F 36 J	%	≥ 50
4. Tensile Strength (Across Grain)	ASTM F 152	N/mm2	≥ 10.5
5. Creep Relaxation (0.80 mm)	ASTM F 38 B	%	≤ 30
6. Stress Relaxation	DIN 52913		
a. 16 hours, 300°C	50 Mpa	Mpa	≥ 18
7. Gas Solubility (0.80 mm)	ASTM F 37 B	ml/hour	≤ 1.0
8. Cold/Hot Compression (0.80 mm)			
a. Thickness decrease at 23°C		%	
b. Thickness decrease at 300°C		%	
9. ASTM OIL NO 3 (5 HRS, 150°C)			
Thickness Increase		%	≤ 10
Weight Increase		%	≤ 10
10. Fuel B (5 hrs, 23°C)			
Thickness Increase		%	≤ 10
Weight Increase		%	≤ 10
11. Water (5 hrs, 100°C)			
Thickness Increase		%	≤ 10
Weight Increase		%	≤ 10
12. Thickness Increase			
65% H2SO4 Acid (48 hrs, 23°C)		%	
96% H2SO4 Acid (48 hrs, 23°C)		%	
40% HNO3 Acid (48 hrs, 23°C)		%	
ASTM Line call out			
Max. Operating Conditions			
Max. Peak Temperature			
Max. Operating Temperature	°c		300
Max. Operating Pressure	°c		250
	Bar		100

