

Superlite®

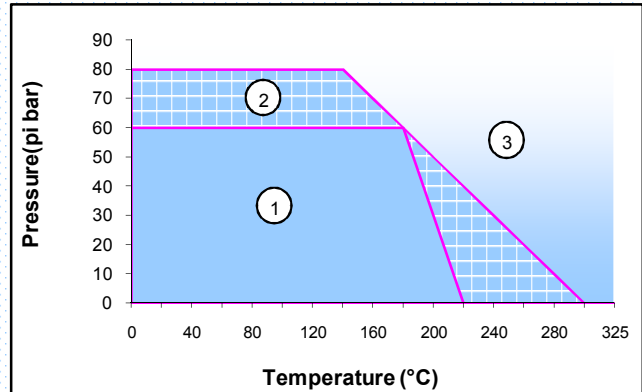
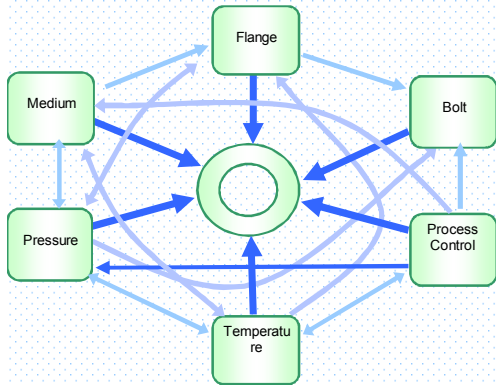
SUPERLITE ASBESTOS FREE OIL-220

Basis

Gasket material based on Aramid fibre & organic fibre with NBR binder.

Application

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



Factors affecting on the gasket

The suitability of a gasket material for an application is dependent upon a multiplicity of factors as shown in the above digram. Max. temperature and pressure values can not define the suitability for application. It is always advisable to consider these factors when selecting a material for a given application.

Areas of application

- ① This area refer , the gasket material is normally suitable subject to chemical compatibility.
- ② This area refer, the gasket material may be suitable but a technical support is recommended.
- ③ This area refer, do not install the gasket without technical evaluation.

Dimensions of the standard sheets :

Standard sheet sizes :1500 X1500 mm,1500 X2250mm, 1500 X4500 mm ,1500 X1000 mm,1000X1000mm
1500 X4000 mm, 1500 X2000 mm, 1300 X3900 mm, 1270 X1270 mm, 2100 X 3000 mm, 1500 X 3000 mm.

Finish : Green , Biue,Grey,White (other Colour on Customer requirement).

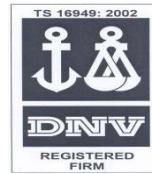
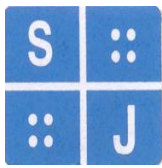
(other Colour on Customer requirement).

Technical data

All data are typical values and refer to sheet thickness of 2.0 mm

	Test method	Specified Value	Unit
Max. Peak Temperature		300	°C
Max. Operating Temperature		220	°C
Max. Operating Pressure		80	bar
Density	ASTM F 1315	1.6-1.9	g/cm ³
Compressibility	ASTM F 36 J	7-17	%
Recovery	ASTM F 36 J	≥ 50	%
Tensile Strength	ASTM F 152	≥ 9.50	N/mm ²
Gas Sealability	ASTM F 37 B	< 1.0	ml/ hour.
Stress Relaxation (16h, 175° C)	DIN 52913	≥ 23	N/mm ²
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		≤ 10	%

All information and recommendations given in this brochure are correct to the best of our knowledge . However , in view of the wide variety of possible installation and operating conditions one cannot draw the final conclusion in all application cases regarding the behaviour in a gasket joint . Therefore , information can only serve as a guideline.



MATERIAL SAFETY DATA SHEET **NON ASBESTOS MATERIAL**

1- IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	Superlite Asbestos Free Oil 220
Identity	Compressed rubber –bonded organic fiber Gasket sheet
Description:	Aramid Fiber, Organic fiber, rubber bonded &vulcanized under pressure
Other Generic Names:	Non-asbestos sheet, compressed non-asbestos gasket Sheet, Asbestos Free Jointing Sheet.
MSDS Number	SJPL NAM - 03
Supplier	Superlite Jointings Pvt. Ltd. Plant Address : Village Galand, Dibarsi Road, Jindal Nagar, Hapur (U.P.) India.

2 - HAZARDS IDENTIFICATION

Not classified as hazardous according to the criteria of NOHSC.

The product is considered harmless to health and the environment in the form supplied and if stored and handled in the correct manner – see Section 7. No hazards are known based on present information.

3 - COMPOSITION/INFORMATION ON INGREDIENTS

Rubber binder (NBR)	<30 %
Organic fibers	<25 %
Inert inorganic fillers	<45-80 %

Note: These materials are bonded with a vulcanized rubber matrix. No Precautions needed unless material is to be subject to a dust –producing process

4 - FIRST AID MEASURES

Inhalation	Dust arising from working the product should be treated as nuisance particulate material. Inhalation of dust may cause irritation to the mucous membranes and upper respiratory tract. Movement of exposed individual to fresh air is recommended.
Skin	May cause irritation to individuals with sensitive skin. Wash skin with soap and water. Launder heavily contaminated clothing before reuse. If prolonged irritation occurs, seek medical advice.
Eye	May cause mechanical irritation in contact with eyes. Remove small solid particles and rinse with water for a minimum of 15 minutes. In all cases of eye contamination it is a sensible precaution to seek medical advice.
Ingestion	Not hazardous. Not a likely source of exposure. If ingested, give plenty of fluid to assist passage through system. Seek medical attention if irritation occurs.

5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media Water, carbon dioxide, powder extinguishers, foam extinguishers

Hazards from Combustion Products In case of combustion, the same gases are produced as with burning rubber. The following may be produced in case of fire: Carbon monoxide; carbon dioxide; sulphur oxides; nitrous gases (NO_x); irritating/caustic, combustible as well as poisonous carbonisation gases.

Precautions for Firefighters and Special Protective Equipment Breathing apparatus and eye protection must be worn to protect from dust, fumes and burning rubber

6 - ACCIDENTAL RELEASE MEASURES

Emergency Procedures Fire: See Section 5
Personal: See Section 4
Environmental: No known environmental hazards exist.

Methods and Materials for Containment and Cleanup Approved vacuum cleaners with high efficiency filters (HEPA) conforming to AS3544 or equivalent must be used to clean areas.

Additional In the case of improper use (see Section 8) fine dust may result. Adequate suction and filtering of the exhaust air should be ensured.

7 - HANDLING AND STORAGE

Handling Care must be taken as the material may have protruding wire that may cause laceration. No special precautions necessary when handling the material in its finished form as the synthetic mineral fibres are encapsulated in a rubber matrix. However, whenever further processing of sheets/gaskets is undertaken, the potential for the release of fibres exists.

Storage Store in a cool, dry, well ventilated area removed from foodstuffs. Ensure ventilation is adequate to disperse vapours emitted from the binding material. Vapours may include traces of carbon monoxide, carbon dioxide, oxides of nitrogen and formaldehyde. Material should not be stored in the vicinity of heat sources. Material is only flammable through the effects of intensive heat. Excessive heat or humidity in the storage area may diminish the product's performance in its intended application.

8 - SPECIAL PROTECTION

When subject to operations that create dust levels higher than 10mg/m³ (Nuisance dust) use dust Collection and /or dust respirator.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Solubility (water)	-	Insoluble
Specific Gravity/Density	-	1.6-1.9 g/cc
Odour	-	None
Appearance	-	Flat or rolled sheet from 0.5mm upto 6.00mm in Thickness. Colour is Blue.

10 - STABILITY AND REACTIVITY

This is stable material under normal use, handling, and storage conditions. Shelf life is measure in years. In service avoid incompatible media .The importer can provide chemical resistance data upon Written Request.

11 – HEALTH HAZARD INFORMATION

Ignition of this material may result in the releases of toxic gases
Drilling sawing sanding or other methods should not create excessive amount of dust.

12 - ECOLOGICAL INFORMATION

Ecotoxicity Not known. Insoluble in water, precipitates.

Persistence and Degradability Not known. Not biologically degradable (self-classification).

Mobility Not known

13-DISPOSAL PROCEDURES

Dispose of in a sanitary landfill in accordance with federal, state, and local regulations of country.

14 - TRANSPORT INFORMATION

UN Number None allocated

UN Proper Shipping Name None allocated

Class and Subsidiary Risks Not relevant

Packing Group Not relevant

Special Precautions for User Do not transport with Explosives, Oxidising agents, Organic peroxides and foodstuffs. In sheet and cut under normal transport conditions. Not defined as a Dangerous Good by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Hazchem Code None allocated

15 - REGULATORY INFORMATION

Regulations for dangerous materials not applicable.

16 - OTHER INFORMATION

The information presented is based on the present level of knowledge and experience.

All information and recommendations contained in this publication are to the best of our knowledge. Since the conditions of use are beyond our control, users must satisfy themselves that products are suitable for the intended processes and applications. No warranty is given or implied in respect of information and recommendations or that any use of the products will not infringe rights belonging to other parties. In any event or occurrence, our liability is limited to our invoice value of the goods delivered and properties without notice.