



Shiv Sales Corporation®

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Fiber Glass Wool

Fire Safety

Fiber Glass Wool made from pure silica sand will not support combustion even in direct, prolonged contact with flames. It emits no toxic fumes or smoke, the two biggest hazards to health and life in the event of a fire. Glass wool is a complete fire safe product complying the following standards:

BS (British Standard) 476 part 4, ISO 1182, IS 3808, International Maritime Organization (IMO) - NON COMBUSTIBLE

BS 476 part 6 - Do not PROPOGATE FIRE

BS 476 part 7- Class 1 - SURFACE SPREAD OF FLAME NIL

Class O certified - Highest class for any building material - index of performance (I) not exceeding 12, sub index of performance (i1) not exceeding 6, Class 1

BS 476 part 5 - Class P - (not easily ignitable) - BS 6853 (toxicity index 0.65) - NON EMISSION OF SMOKE & TOXIC GASES

Thermal Performance

Cooling costs in a building insulated throughout with glass wool can be reduced significantly. The use of glasswool for the thermal insulation of external walls and ceilings has been shown to reduce energy consumption by 20% to 30%.

Thermal Conductivity in W/MK

Mean Temperature in deg C	12		16		Density in Kg/m3		
	24	32	48	24	32	48	
10	0.038	0.035	0.031	0.030	0.027		
25	0.041	0.039	0.033	0.042	0.030		
30	0.048	0.043	0.039	0.043	0.033		
100	0.065	0.057	0.047	0.045	0.040		

Tolerance : +/-5%

Thermal Resistance in sq.m. KW; Thickness : 50mm

Mean Temperature in deg C	12		16		Density in Kg/m3		
	24	32	48	24	32	48	
10	1.32	1.43	1.61	1.67	1.85		
25	1.22	1.28	1.52	1.56	1.67		
30	1.04	1.16	1.28	1.43	1.52		
100	0.77	0.88	1.06	1.16	1.25		

Tolerance : +/-5%

Thermal Resistance in sq.m. KW ; Thickness : 25mm

Mean Temperature in deg C	12		16		Density in Kg/m3		
	24	32	48	24	32	48	
10	0.66	0.71	0.81	0.83	0.93		
25	0.61	0.64	0.76	0.78	0.83		
30	0.52	0.58	0.64	0.71	0.76		
100	0.38	0.44	0.53	0.58	0.63		

Tolerance : +/-5%

Performance on Site

Easier to load, easier to transport, easier to unload and store on site.

Recovery after compression is more than 95% in accordance with 1S 8183 / BS 3958 Part 5 means there is a immediate recovery after unrolling or release of pressure so it is ready to use almost As soon as it arrives on site.

It is stable under varying conditions of temperature and humidity when applied correctly.

Excellent tear strength and not prone to sagging or settling. Rigid slabs have inherently high compressive strength.

Does not settle down while subjected to Vibration and Jolting. Conforms to IS 3144 / BS 2972

Flexible, elastic and lightweight means it can be applied easily, anywhere it is needed. In roof spaces. In wall spaces. In the most awkward corners. Even in the highest of vertical applications. And in most applications, without the need for fixings. These characteristics mean that TWIGA glass wool is almost always the lowest installed cost acoustic and thermal insulant..

Environmental Performance

Glass wool is one of the most environmentally friendly, stable and sustainable insulants available. Its raw material is silica sand, the most abundantly occurring natural material. And its impact on the environment in manufacture, use and disposal is minimal.

Zero Ozone Depleting Potential
Minimum VOC
Uses abundant and renewable raw materials.

Temperature Range

These Fiber Glasswool is suitable for applications ranging from minus 1950 C to 2300 C. For special applications upto 4500C, high temperature binder is available. Aluminum foil facing is suitable upto 1200C.

Chemical Stability

Glasswool is chemically inert. Application does not cause or accelerate corrosion.

Glasswool is rot proof and odorless. Conforms to IS 3144.

Shot content is nil, exceeding requirements of IS 3144 / BS 2972

No Mould growth. Conforms to IS 3144.

Moisture content and water absorption is less than 2% in accordance with IS 3144 / BS 2972

Glasswool superior tensile strength, handleability, resilience, low thermal conductivity, relatively high THERMAL RESISTANCE (R Value) along with its superior Fire safe properties (Non combustible) and excellent noise reduction properties makes it suitable for a wide variety of thermal & acoustic insulation applications ranging from HVAC, metal roof and building insulation to applications in solar collectors and generator acoustic enclosures & is recommended for use both in hot & cold application ranging in temperature from -195degrees to plus 450 degrees centigrade. As Twiga Insul repels moisture and it contains nothing organic to support micro organisms, it won't sustain rot, fungi or bacteria.

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