



## Glasswool Insulation



### Description

Glass Wool is manufactured by using unique centrifugal technology to fibrose the molten glass and add environmental binder based on thermosetting resin. The main component is glass fiber with a diameter of only a few microns. It is recognized as a fire resistance, thermal insulation, heat preservation and sound absorption material with superior performance.

A wide range of thermal resistance R-values is available to provide thermal control for both vertical and horizontal applications. This Insulation with PureFiber Technology is flexible insulation and is made in R-values from 11 to 38. This Insulation is available Unfaced with rolls form. The product is manufactured in thicknesses from 3½" to 12."

### Features

- Formaldehyde-free: will not off-gas formaldehyde in the indoor environment.
- Thermally Efficient: provides effective thermal shock resistance to heat transfer with low thermal conductivity.
- Sound Control: reduces transmission of sound through exterior and interior walls and floor or ceiling assemblies.
- Fire Resistant and Noncombustible: see Physical Properties.
- Durable Inorganic Glass: will not rot, mildew or deteriorate and is noncorrosive to pipes, wiring and metal studs.
- Superior Performance: bonded glass fibers are dimensionally stable and will not slump within the wall cavity, settle or break down during normal applications. It is High resilience and Light weight and Easy to install and wrap around curved surfaces.

### Uses

Insulation can be used in a wide range of exterior-interior wall, floors and roof/ceiling applications for thermal and vibration-sound control, as well as basement wall insulation. The product can be installed in wood or metal framing cavities, or can be installed between furring strips.

Retrofit: adding insulation to attics, crawl spaces and above suspended ceilings.

Thermal insulation for the equipment in petrochemical, metallurgy, power plant and other industries

Excellent lining material for high temperature workshops, control rooms, machine room interior walls, compartments and flat roofs.



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### Technical Specification

	R7	R11		
Properties	Value	Value	Unit	Test Standard
R-Value (Average Temperature 25±5°C)	1.33	2.2	m²K/W	
Thermal Conductivity	0.041	0.046	W/m K	ASTM C518   AS/NZS 4859.1: 2002   EN12667
Thermal Resistance	1.23	1.96	m² °C/M	ASTM 653   AS/NZS 4859.1: 2002
Fire Hazard Properties	Ignitability: 0 Spread of Flame: 0 Heat Evolved: 0 Smoke Developed: 0	Ignitability: 0 Spread of Flame: 0 Heat Evolved: 0 Smoke Developed: 0		AS/NZ 1530.3   ASTM E84   NFPA 255   UL 723
Water Vapor Absorption	Less than 5% by weight	Less than 5% by weight		ASTM C1104/C1104M   EN 1609
Microbial Growth	Does not support	Does not support		ASTM C1338
Corrosion Resistance	No greater than sterile cotton	No greater than sterile cotton		ASTM C665
Combustibility	Non-combustible	Non-combustible		EN ISO 1182   GB/T 5464   EN 13501-1   GB 8624
Maximum Service Temperature	270	270	°C	ASTM C411/C447
Mold Resistance	Mildew proof	Mildew proof		ASTM C665
Moisture Absorption	≤ 3	≤ 3	% by vol	ASTM C 1104
Humidity veneration Rate	Max 0.013	Max 0.013	g/24 Hours m²	ASTM E96
Average NRC	1	1		EN ISO 354:2003
Average diameter of fibers	6.5-7.0	6.5-7.0	µm	GB/T 17795-2008
Density	14	11	kg/m3	ASTM C612   ASTM C617
Thickness	50	90	mm	GB/T 17795-2008   ASTM C617
Materials	Quartz sand, sandstone, feldspar, limestone, dolomite, soda ash, borax, crushed glass	Quartz sand, sandstone, feldspar, limestone, dolomite, soda ash, borax, crushed glass		GB/T 17795-2008 ASTM C617
Reshrinking temp	495	495	°C	
Slag inclusion content (diameter ≥0.25mm)	0	0	mm	GB/T 13350-2008
Hygroscopicity	≤1% (Test Condition:49°C Relative air humidity:90%)	≤1% (Test Condition:49°C Relative air humidity:90%)	%	GB 8624-2012
Corrosivity	NO	NO		GB /T13350- 2008
Noise reduction coefficient (standing wave tube method: rigid wall)	0.8	0.8		GB /T13350- 2008
Fomaldehyde to release	0	0	Mg/L	

US OFFICE: Sungen solar , 111 Charlotte Place Suite 101A Englewood Cliffs, NJ 07632 Office Tel: 201-568-1424