

Superwool[®] Bulks



Datasheet Code US: 1114-100

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Product Features

- Low Bio-Persistence
- Excellent Insulating Performance
- Excellent Thermal Shock Resistance
- Low Heat Storage Capacity
- Different Compositions, Grades and Forms to Meet a Variety of Needs

Product Description

Superwool is manufactured from pure raw materials and processed to offer excellent performance in high-temperature applications. Superwool offers an alternative to traditional solutions due to its high refractoriness and excellent non-wetting characteristics with molten aluminum.

Superwool provides stability and resistance to chemical attack. Exceptions include hydrofluoric acid, phosphoric acid and strong alkalis (i.e. NaOH, KOH). Superwool is unaffected by incidental spills of oil or water. Thermal and physical properties are restored after drying.

Superwool is ideally suited to individual applications and is available in a wide range of thicknesses and densities. The maximum continuous use temperature depends on the application. Refer to your local Thermal Ceramics representative for advice.

Applications

- Expansion Joints
- Low Mass Kiln Cars
- Tube Seal Fabrication
- Thermal and Acoustical Insulation
- Filtration Media
- Reinforcement and Filler for Plastics, Resins and Paints
- Fillers for Mastics, Cements and Vacuum Formed Boards and Shapes

Type

Alkaline Earth Silicate (AES) Wool
CAS number: 329211-92-9

Superwool[®] Bulks



	Superwool Plus	Superwool HT
Color	white	white
Continuous Use Temp, °F (°C)	1832 (1000)	2102 (1150)
Classification Temp, °F (°C)	2192 (1200)	2372 (1300)
Average Specific Heat	0.26 BTU/lb-°F @ 1800°F (1.08 kJ/kg-°C @ 982°C)	
Fiber Length, in (mm)	½ - 10 (13-250)	

Chemical Analysis, %, Weight Basis After Firing

Silica, SiO ₂	62 - 68	70 - 80
Lime + Magnesia, CaO + MgO	29 - 39	18 - 25
Other	<1	<3
Leachable Chlorides	trace	-

Availability and Packaging

Thermal Ceramics Bulk fibers are packaged in either cartons or bags and stretch-wrapped onto pallets. Standard Packaging on Lubricated Bulk Fibers is 25 lb cartons. Standard Packaging on Un-Lubricated Bulk Fibers is 40 or 50 lb bags. Please check with your Thermal Ceramics office for current lead times and availability.

	Grade	Typical Fiber Index	Fiber Length	Lubrication
Superwool Plus, Superwool HT	111	45-70%	up to 10 in (250mm)	Yes
	112	45-70%	up to 10 in (250mm)	No
	HM-12	50-70%	½ in (13mm)	No
	HM-25	50-70%	1 in (25mm)	No
	HM-50	50-70%	2 in (50mm)	No
Engineered Fibers	Various	60-90%	Various	No

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