Thermal Ceramics

Superwool® Bulk

Product Information

Superwool is uniquely designed from pure raw materials and specially processed to offer excellent performance in high-temperature applications. Superwool offers an alternative to traditional solutions due to its exceptional properties of high refractoriness and excellent non-wetting characteristics in applications requiring direct contact with molten aluminum.

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

Although Superwool's basic fiber form offers an economical alternative for most applications, they can be engineered to meet the requirements of your most demanding application. Fiber diameter, shot content, fiber length and form can be altered as required to achieve desired properties for specific applications.

Type

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

Features

- Low biopersistence
- Thermal stability
- Low heat storage
- Good resistance to tearing
- Flexible and resilient
- Immune to thermal shock
- Excellent thermal insulating performance
- Based on patented technology

Applications

Bulk

- Expansion joints construction
- Base seals
- Low mass kiln car construction
- Tube seal fabrication
- Thermal and acoustical insulation
- As primary raw material for high temperature converted and engineering fibers - Enfil®

Enfil

- Transportation
- Filtration media
- Reinforcement for plastic and resins
- Filler in resins and paints
- Friction material
- Mastic and cement

Superwool Bulk

Product Information

Physical Properties	**Bulk 607**	**Bulk 607 MAX**
Color	white	white
Continuous use limit, ° *(°C)*	1832 *(1000)*	2200 *(1204)*
Maximum temperature rating	2012 *(1100)*	2300 *(1260)*
Melting point, ° *(°C)*	2680*(1471)*	2730 *(1499)*
Chemical Analysis		
Silica, SiO_2	60 - 70	60 - 70
Calcium Oxide, CaO	25 - 35	16 - 22
Magnesium Oxide, MgO	4 - 7	12 - 19
Alumina, Al_2O_3	trace	trace

Common Types - Superwool bulk 607 and 607 MAX

	111	**112**	**VFS**	**HM 50**	**HM 25**	**HM 12**	**Enfil®**
Lubrication	yes	–	–	–	–	–	–
Fiber length, in *(mm)*	<10 *(<250)*	<10 *(<250)*	<4 *(<100)*	<2 *(<50)*	<1 *(<25)*	<½ *(<12.5)*	*(<50)*
Fiber index, %	50	50	50	50	50	50	0.1 to 50
Bulk density, pcf *(kg/m³)*	8 - 12 *(128 - 192)*	8 - 12 *(128 - 192)*	9 - 13 *(144 - 208)*	9 - 13 *(144 - 208)*	12 - 16 *(192 - 256)*	15 - 19 *(240 - 304)*	6 - 60 *(95 - 961)*
Packing, lb/bag *(kg/bag)*	40 *(18)*	40 *(18)*	40 *(18)*	50 *(22)*	50 *(22)*	50 *(22)*	25/ctn *(11.3)*

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