



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

- Furnace kiln, reformer and boiler lining
- Laboratory ovens
- Furnace door lining and seals
- Furnace repair
- Annealing furnace linings
- Investment casting mold wrap
- Stress - relieving blankets
- Reusable steam and gas turbine insulation
- Expansion joints packing
- High temperature gasketing
- Fire protection
- Acoustical service
- Cryogenic insulation

Superwool Blanket

Product Information

Physical Properties

	Blanket 607	Blanket 607 MAX
Color	white	white
Classification temperature rating	2012 (1100)	2300 (1260)
Continuous use limit, °F (°C)	1832 (1000)	2200 (1204)
Melting point, °F (°C)	2680(1471)	2730 (1499)
Density, pcf (kg/m ³)	4*, 6, 8, 10 (64, 96, 128, 160)	4*, 6, 8, 10 (64, 96, 128, 160)
Thickness, in (mm)	¼ - 2 (6.25 - 50)	¼ - 2 (6.25 - 50)
Width, in (mm)	24, 48 (600, 1200)	24, 48 (600, 1200)
Length, ft (m)	15**, 25 (4.5 - 7.5)	15**, 25 (4.5 - 7.5)
Typical linear shrinkage, nominal % 24 hrs		
@ 1000°F (538°C)	2	–
@ 1800°F (982°C)	3	–
@ 2282°F (1250°C)	–	<2

Chemical Analysis

Silica, SiO ₂	60 - 70	60 - 70
Calcium Oxide, CaO	25 - 35	16 - 22
Magnesium Oxide, MgO	4 - 7	12 - 19
Zirconia, ZrO ₂	–	–
Alumina, Al ₂ O ₃	trace	trace

* 4pcf only available in 1/2 up to 2"

** 2" thick, 48"wide only

Thermal Conductivity, Btu•in/hr•ft²•°F (w/m•k) (ASTM 201)

	Blanket 607 (8 pcf)	Blanket 607 (6 pcf)	Blanket 607 MAX (8 pcf)	Blanket 607 MAX (6pcf)
Mean temperature				
@ 500°F (260°C)	0.42 (0.06)	0.46 (0.07)	0.42 (0.06)	0.46 (0.07)
@ 1000°F (538°C)	0.88 (0.13)	1.02 (0.15)	0.88 (0.13)	1.02 (0.15)
@ 1500°F (816°C)	1.53 (0.22)	1.78 (0.26)	1.53 (0.22)	1.78 (0.26)
@ 1800°F (982°C)	1.95 (0.28)	2.28 (0.33)	1.95 (0.28)	2.28 (0.33)

The values given herein are typical average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Therefore, the data contained herein should not be used for specification purposes. Check with your Thermal Ceramics office to obtain current information.

This product may be covered by one or more of the following patents or foreign equivalents: US5332699, US5714421, US5811360, US5821183, US5928975, US5955389, US5994247, US6180546, EP0906250, GB2348640. A list of foreign patent numbers is available upon request to The Morgan Crucible Company plc. Thermal Ceramics, Superwool, 607 and MAX are trademarks of The Morgan Crucible Company plc.

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