



Superwool[®] Plus and HT Bulk

Product Data Sheet

Product Description

Superwool Plus and Superwool HT Bulk have excellent thermal stability and retain the original soft fibrous structure up to their continuous use temperature - Superwool Plus Bulk 1050°C (1920°F) and Superwool HT Bulk 1150°C (2100°F).

With a classification temperature of 1200°C (2190°F) for Superwool Plus and 1300°C (2370°F) for Superwool HT Bulk each offer enhanced thermal properties. Superwool Plus Bulk and Superwool HT Bulk contain no binder and do not emit fumes or odour during the first firing.

Features

- Excellent resistance to thermal shock
- Fibres are opaque to infrared and so maintain their low thermal conductivity to high temperatures
- Fibres absorb very little energy on heating
- Fibres are high purity and highly corrosion resistant
- Fibres are highly resilient

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
- Raw materials for vacuum formed boards and shapes, felts and papers

Environmental & Health Safety

Superwool low biopersistent fibres manufactured by Morgan Advanced Materials are not classified as carcinogenic by IARC or under any national regulations on a global basis. They have no requirements for warning labels under GHS (Globally Harmonised System for the classification and labelling of chemicals).

In Europe, Superwool fibres meet the requirements specified under Note Q of European Regulation EC/1272/2008 (on Classification, Labelling and Packaging of substances and mixtures). All Morgan Advanced Materials Superwool low biopersistent fibre products are therefore exonerated from classification and labelling as hazardous in Europe.

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	Superwool Plus Bulk	Superwool HT Bulk	
Colour	White	White	
Classification Temperature, °C (°F)	1200 (2190)	1300 (2370)	
Continuous Use Temperature, °C (°F)	1050 (1920)	1150 (2100)	
Melting Temperature, °C (°F)	1325 (2400)	1425 (2600)	
Specific Heat, kJ/kg•°C @ 980°C (BTU/lb•°F @ 1800°F)	1.05 (0.25)	1.22 (0.29)	
Specific gravity, g/cm ³	2.7	2.5	
Average Fibre Diameter, µm	2.5 - 3.4	3.5 - 5.0	
Fibre Index, %	62 - 70	57 - 65	
Chemical Analysis, %			
	Silica, SiO ₂	62 - 68	70 - 80
	Calcium Oxide, CaO	26 - 32	18 - 26
	Magnesium Oxide, MgO	3 - 7	<5
	Other	<1	<3

Product Availability

Superwool Plus and Superwool HT Bulk Fibres are manufactured globally, but fibre grades and packaging vary by region. Please reference the table below and contact your regional Morgan Advanced Materials - Thermal Ceramics representative to provide specific packaging available for your local business needs.

Europe		Americas		Asia
Lubricated or Unlubricated bulk available in bales or bags (5 lengths: extra long, long, medium, short, extra short)		Lubricated (Grade 111) or Unlubricated (Grade 112) bulk available in bags		Lubricated or Unlubricated bulk available in bags
Grade	Description	Grade	Description	
G25	Chopped to medium length	HM-50	Hammer milled to long length	
G6	Chopped to short length	HM-25	Hammer milled to medium length	
		HM-12	Hammer milled to short length	

The product(s) represented are intended for industrial refractory applications. The values and application information in this datasheet are given for guidance only. The values and the information given are subject to normal manufacturing variation and may be subject to change without notice. Morgan Advanced Materials – Thermal Ceramics makes no guarantees and gives no warranties about the suitability of a product, and you should seek advice to confirm the product's suitability for use with Morgan Advanced Materials.