



# Superwool<sup>®</sup> Prime Bulk

## Product Data Sheet

### Product Description

Superwool Prime Bulk, our newest fibre chemistry for applications requiring high performance with a classification temperature of 1300°C (2370°F). Superwool Prime Bulk is manufactured using patented low shot technology offering improved mechanical performance with exceptional thermal and physical properties.

Superwool Prime Bulk has excellent thermal stability and retains the original soft fibrous structure up to a continuous use temperature ranging from 1150 - 1200°C (2100 - 2190°F). Superwool Prime Bulk contains no binder and does 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 Prime Bulk	
Colour	White
Classification Temperature, °C (°F), EN 1094-1 (2008)	1300 (2370)
Continuous Use Temperature, °C (°F)	1150-1200 (2100-2190)
Melting Temperature, °C (°F)	1438 (2600)
Specific gravity, g/cm <sup>3</sup>	2.7
Average Fibre Diameter, µm	2.6 - 3.9
Fibre Index, %	65 - 70
Chemical Analysis, %	
	Silica, SiO <sub>2</sub> 64-70
	Calcium Oxide, CaO 29-35
	Other <3

### Product Availability

Superwool Prime 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 and Unlubricated bulk available in bales	Lubricated (Grade 111) or Unlubricated (Grade 112) bulk available in bags		
	<b>Grade</b>	<b>Description</b>	Lubricated or Unlubricated bulk available in bags
	HM-50	Hammer milled to long length	
	HM-25	Hammer milled to medium length	
	HM-12	Hammer milled to short length	

Whilst the values and application information in this datasheet are typical, they 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 - Thermal Ceramics.