



# Superwool<sup>®</sup> 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
- The fibres are opaque to infrared and so maintain their low thermal conductivity to high temperatures
- The fibres absorb very little energy on heating
- The fibres are high purity and highly corrosion resistant
- The fibres are highly resilient

### Applications

- Vacuum forming feedstock
- Textile manufacturing
- Building expansion joints
- Chimney fill
- Fire door infill

### 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 <sup>3</sup>	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 <sub>2</sub>	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 vary by region. Please reference these tables and contact your regional Morgan Advanced Materials - Thermal Ceramics representative to provide specific packaging available for your local business needs.

Fibre Grade	111	112	HM-12	HM-25	HM-50
Region of manufacture	Americas				
Fibre description	Compressed bulk		Hammer-Milled, Short	Hammer-Milled, Medium	Hammer-Milled, Long
Lubrication	Yes	No			

Fibre Grade	Bulk	Bulk	Extra Long	Long	Medium	Short	Extra Short	G6	G25
Region of manufacture	Asia	Europe							
Fibre description	Compressed bulk	Compressed bales of bulk	Compressed bulk				Chopped, Short	Chopped, Medium	
Lubrication	Yes / No							No	

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.