

# Superwool<sup>®</sup> Prime Textiles

## Product Data Sheet



### Product Description

Superwool Prime Textiles are manufactured using Morgan's newest low biopersistent fibre chemistry with a classification temperature of 1300°C (2372°F).

The use of the patented low-shot fiberisation technology, ultra-pure raw materials offers excellent thermal and physical features to our Superwool Prime Textile portfolio.

The Textile portfolio includes the following and they may be reinforced by E-Glass fibre or Stainless Steel Wire:

- **Superwool Prime Tapes** are created by weaving a number of plied Superwool Prime yarns, reinforced with E-Glass or Stainless Steel Wire.
- **Superwool Prime Ropes** are created with strips of Superwool Prime Blanket that are over-braided with an E-glass yarn, a Stainless Steel yarn, or Superwool yarn with E-Glass or Stainless Steel reinforcement.
- **Superwool Prime Twisted Rope** is twisted threads made of Superwool Prime fibre yarn reinforced with E-glass or stainless steel.
- **Superwool Prime Braided Rope** is a braided Superwool Prime fibre yarn reinforced with E-glass or stainless steel around a core of yarns made of Superwool Prime reinforced with E-glass yarn. Available in round or square cross section.
- **Superwool Prime Braided Sleeving** is a woven form of Superwool Prime fibre yarn reinforced with E-glass or stainless steel.
- **Superwool Prime Cloth** is a woven mesh of Superwool Prime fibre yarn reinforced with E-glass or stainless steel.

### Applications

- **Yarn:** Used for weaving or braiding into different kinds of textiles
- **Tapes:** For industrial thermal insulation, piping and electrical cable lining, shielding against heat radiation, oven door curtain, flange joint etc.
- **Rope:** Based on the different requirements, can be produced into twisted rope, 3-ply twisted rope and roving twisted rope. Used for high temperature pipe insulation and sealing, electrical cable lining, thermal insulation for coke oven and cracking furnace, door sealing for electric furnace and drying oven, sealing for boiler and high temperature gas etc.
- **Braided Rope:** Used for thermal insulation and sealing in various areas including ovens, boilers, burners, heat exchangers, furnace cars, chimneys, valves and pumps etc.
- **Cloth:** Used for large area industrial thermal insulation, fire protection and base cloth of fire curtain, welding curtain and coating cloth etc.
- **Sintered Cloth or Tape:** Cloth or tape after the specific heat treatment can effectively avoid generating fires and smokes during the service.

### 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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Properties		Superwool Prime Textiles
Region of Manufacture		Asia
Fibre Classification Temperature, °C (°F)		1300 (2372)
E-Glass Reinforced Continuous Use Temperature, °C (°F)		400 (752)
Steel Reinforced Continuous Use Temperature, °C (°F)		800 (1472)
Loss on ignition,%		<20
Chemical Composition, %		
	Silica, SiO <sub>2</sub>	67
	Calcium oxide, CaO	32
	Other	Trace

### Product Availability

Superwool Prime Textiles are manufactured currently in our Asia region. Textiles are available globally, but request you contact your regional Morgan Advanced Materials - Thermal Ceramics representative to provide specific packaging availability for your local business needs.

Standard Dimensions and Availability		
Yarn, mm	420x2, 525x2, 625x2, 630x2, 830x2, 1000x2, 830x3, 2000x1, 2000x2, 2250x2	
Fibre Cloth, mm	Thickness: 2,3,5	Width: 1000 - 1500
Fibre Tape, mm	Thickness: 2,3,5	Width: 15, 25, 50, 75, 100, 120, 150, 200, 250, 500
Fibre Rope, mm	Diameter : 3, 4, 5, 6, 8, 10, 12, 13, 14, 16, 18, 20, 25, 30, 35, 40, 50, 60, 75, 100, 120	
Braided Rope, mm	Diameter / Length: 6, 8, 10, 12, 14, 16, 18, 20, 25, 30, 35, 40, 50, 60, 75, 100, 120	

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.