



Superwool[®] Plus and HT Felt

Product Data Sheet

Product Description

Superwool Plus and Superwool HT Felts are manufactured from Superwool bulk fibres and bonded with organic binders that begin to burn off at 180°C (356°F).

Superwool Plus Felt, a classification temperature 1200°C (2192°F) and Superwool HT Felt, a classification temperature 1300°C (2372°F), feature excellent thermal stability and are ideally suited for die-cutting operations. In addition, Superwool Felts are semi-rigid and are neither brittle nor dusty.

Superwool Felts feature chemically stable fibres. These fibres are lightweight, insulating, and an ideal multi-purpose solution.

Features

- High-temperature resistance
- Low thermal conductivity
- Particularly suited to cutting operations (with saw, water jet or by stamping)
- Flexible or semi-rigid, depending on density selected
- Chemically stable
- High sound absorption properties
- Precise thicknesses
- Resistant to thermal shock
- Low heat storage
- No reaction with alumina based bricks in application in the range of the typical use temperature

Applications

- Die cut shapes for domestic appliances
- Thermal barrier media
- Insulating thermal break
- High temperature gaskets
- Expansion joints for furnace, kiln and boiler linings

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 Plus Felt	Superwool HT Felt
Region of Manufacture	Asia	Asia
Colour	White	White
Classification Temperature, °C (°F)	1200(2192)	1300(2372)
Continuous Use Temperature, °C (°F)	1000(1768)	1100(2012)
Density, kg/m ³ (pcf), EN 1094-1 (2008), as supplied dry	160 (10)	160 (10)
Tensile Strength, MPa (psi), EN 1094-1 (2008)	0.08 (11.6)	0.08 (11.6)
Loss of Ignition, %	<6	<6
Permanent Linear Shrinkage, % ENV (1094-1),after 24hrs		
1000°C	1.5	-
1200°C	-	2.4
Chemical Analysis, %		
Silica, SiO ₂	62 - 68	70-80
Potassium Oxide, K ₂ O	26 - 32	18-26
Magnesium Oxide, MgO	3 - 7	-
Calcium oxide, CaO	-	18-26
Other	<1	<3

Product Availability

Superwool Plus and HT Felt are manufactured in Asia.

Please contact your regional Morgan Advanced Materials - Thermal Ceramics representative to support providing specific packaging availability for your local business needs.

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.