

Superwool[®] HT Felt

Product Data Sheet



Product Description

Superwool HT Felt is manufactured with Superwool HT low biopersistent fibres by hot pressing.

Superwool HT Felt is bonded with an organic binder which begins to burn out at 180°C (356°F).

This special binder makes Superwool HT Felt particularly suitable for die-cutting operations.

Semi rigid, it is neither brittle or dusty, Superwool HT Felt optimises the manufacture of complex, die-cut shapes to close tolerances.

Features

- Densities ranging from 64 to 288kg/m³ (4 to 18 pcf)
- High temperature resistance
- Low thermal conductivity
- Flexible to semi-rigid, depending on density selected
- Chemically stable
- Thickness controls
- Thermal shock resistant
- Low heat storage
- No reaction with alumina based bricks in application in the range
- Suited to cutting operations (with saw, water jet or by stamping)
- Excellent sound absorption characteristics

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.

www.morganthermalceramics.com Email: marketing.tc@morganplc.com Thermal Ceramics is a business of Morgan Advanced Materials

Applications

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

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Properties	Superwool HT Felt								
Region of Manufacture	EMEA								
Color	yellow								
Classification Temperature, °C (°F), EN 1094-1 (2008)	1300 (2372)								
Denisty, kg/m³ (pcf), EN 1094-1 (2008)									
Dry, as supplied	64, 96, 128, 160, 192, 224, 256, 288 (4, 6, 8, 10,12, 14, 16, 18)								
Loss of Ignition, LOI	4-12								
Permanent Linear Shrinkage, %, after 24 hours, ENV 1094-1									
1200°C (2192°F)	<2								
Chemical Analysis, %									
Silica, SiO ₂	70-80								
Calcium oxide + Magnesium oxide, CaO + MgO	18-25								
Other	<3								

Thermal Conductivity, W/m•K (BTU•in/hr•ft²•°F), ASTM C201										
Density, kg/m ³ (pcf)	<u>64 (4)</u>	<u>128 (8)</u>	<u>192 (12)</u>	<u>288 (18)</u>						
300°C (572°F)	0.07 (0.49)	0.07 (0.49)	0.06 (0.42)	0.05 (0.35)						
500°C (932°F)	0.16 (1.11)	0.12 (0.83)	0.09 (0.62)	0.08 (0.56)						
700°C (1292°F)	0.28 (1.94)	0.2 (1.39)	0.14 (0.97)	0.11 (0.76)						
900°C (1652°F)	0.45 (3.12)	0.32 (2.22)	0.21 (1.46)	0.16 (1.11)						
1000°C (1832°F)	0.55 (3.82)	0.38 (2.64)	0.25 (1.73)	0.19 (1.32)						
1100°C (2012°F)	0.66 (4.58)	0.45 (3.12)	0.3 (2.08)	0.22 (1.53)						

Product Availability

This product availability and packaging reflects the European manufactured Superwool HT Felt. Please contact your regional Morgan Advanced Materials - Thermal Ceramics representative for packaging availability for your local needs.

Thiskness mm (in)	Density, kg/m³ (pcf)							Quantity / Day	Minimum Order
Thickness, mm (in)	64 (4)	96 (6)	128 (8)	160 (10)	192 (12)	288 (18)	384 (24)	Quantity / Box	Quantity (Box)
3 (0.12)					Х	Х	Х	40	1
6 (0.24)		Х	Х	Х	Х	Х	Х	22	2
10 (0.4)	Х	Х	Х	Х	Х	Х	Х	12	3
13 (0.52)	Х	Х	Х	Х	Х	Х	Х	10	3
19 (0.76)	Х	Х	Х	Х	Х			7	3
25 (1)	Х	Х	Х	Х	Х			5	4
38 (1.52)		Х						3	4

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.