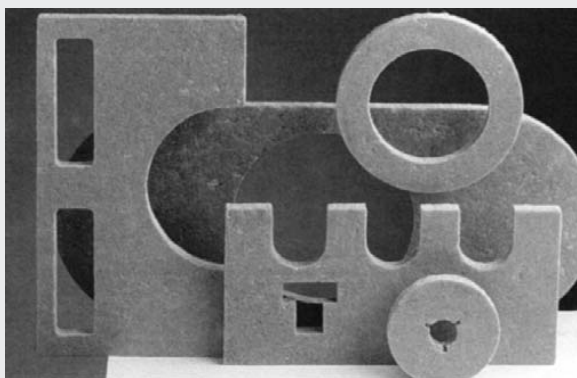


Superwool® 607® HT Felt



Datasheet Code EU: 11-4-10 E

© 2009 Morgan Thermal Ceramics, a business within the Morgan Ceramics Division of The Morgan Crucible Company plc



Type

Felt manufactured from high temperature insulation wool.

Description

Superwool® 607® HT™ Felt is an insulating felt, obtained by hot pressing.

It is made from Superwool® 607® HT™ fibres, bonded with an organic binder which begins to burn out at 180°C.

This special binder makes Superwool® 607® HT™ Felt particularly suitable for die-cutting operations. Semi rigid, it is neither brittle nor dusty.

Superwool® 607® HT™ Felt optimises the manufacture of complex, die-cut shapes to close tolerances.

Made from chemically stable fibres, lightweight and very insulating, Superwool® 607® HT™ Felt is a multi-purpose product.

Classification Temperature

1300°C (EN 1094-1)

The maximum continuous use temperature depends on the application. Please contact Morgan Thermal Ceramics for advice.

Features

- Wide range of densities: eight grades from 64kg/m³ up to 288kg/m³
- 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
- Exonerated from any carcinogenic classification under nota Q of directive 97/69 EC

SUPERWOOL® is a patented technology for high temperature insulation wools which have been developed to have a low bio persistence (information upon request). This product may be covered by one or more of the following patents, or their foreign equivalents:- SUPERWOOL® PLUS™ products are covered by patent numbers:- US5714421, US5994247, US6180546, US7259118, and EP0621858. SUPERWOOL® 607HT™ products are covered by patent numbers:- US5955389, US6180546, US7259118, US7470641, US7651965, US7875566, EP0710628, EP1544177, and EP1725503. A list of foreign patent numbers is available upon request to The Morgan Crucible Company plc.

Superwool® 607® HT Felt



Main properties

Classification temperature	°C	1300
Properties Measured at Ambient Conditions (23°C/50% RH)*		
Colour		yellow
Density	kg/m ³	64 up to 288
High Temperature Performance		
Loss on ignition (depending on grade)	%	4 up to 12
Permanent linear shrinkage (EN 1094-1) after 24 hours isothermal heating at 1300°C	%	<2

Thermal conductivity (ASTM C-201) at mean temperature of:

	64kg/m ³	128 kg/m ³	192 kg/m ³	288 kg/m ³
300°C	0.07	0.07	0.06	0.05
500°C	0.16	0.12	0.09	0.08
700°C	0.28	0.20	0.14	0.11
900°C	0.45	0.32	0.21	0.16
1000°C	0.55	0.38	0.25	0.19
1100°C	0.66	0.45	0.30	0.22

Specific heat capacity at 1090°C kJ/kg.K 1.22

Chemical Composition

SiO ₂ on calcined product	%	70-80
CaO + MgO	%	18-25
Others	%	<3

Availability and Packaging

Superwool® 607® HT™ Felt is packed in cartons, 1220 x 1070mm on pallets

Thickness mm	Density kg/m ³					
	64	96	128	160	192	288
6	X	X	X	X	X	X
10	X	X	X	X	X	X
13	X	X	X	X	X	X
19	X	X	X	X	X	X
25	○	X	X	X	X	X

Marks (○) upon request (subject to minimum order requirements).

The values given herein are typical values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Therefore, the data contained herein should not be used for specification purposes. Check with your Thermal Ceramics office to obtain current information.