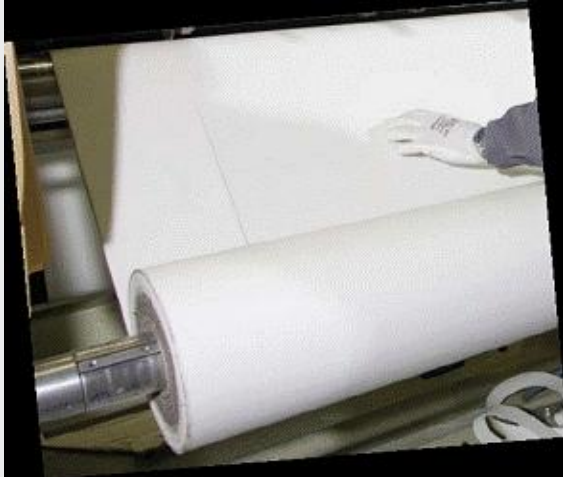


Superwool® HT Paper



Datasheet Code EU: 11-4-00 E

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Type

Paper manufactured from high temperature insulation wool.

Classification Temperature

1300°C (EN 1094-1)

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

Description

Superwool® HT™ Paper an insulating product, is made of Superwool® HT™ fibres bonded with a low percentage of organic binder.

It has excellent thermal insulation characteristics and exceptional handling properties.

Very flexible and resistant to tearing, Superwool® HT™ Paper is particularly suited to all applications requiring further processing (laminated composites, die-cutting, rolling, folding).

The organic binder burns out cleanly on the first firing at approximately 300°C, with ignition starting at 180°C.

Features

- Good resistance to tearing
- High flexibility
- Low shot content
- Precise thickness
- Smooth on both sides
- Resistant to thermal shock
- Very low thermal conductivity
- Not affected by the presence of molten aluminium
- 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™ SUPERWOOL® HT™ 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[®] HT Paper



Main properties

Classification Temperature	°C	1300
Properties Measured at Ambient Conditions (23°C/50% RH)		
Colour		white
Density (average)	kg/m ³	210
Tensile strength (EN 1094-1)	MPa	>0.45
High Temperature Performance		
Loss of ignition	%	8
Linear shrinkage at 1300°C	%	<2

- Thermal conductivity (ASTM C201) at mean temperature of:

200°C W/m.K	0.04
400°C W/m.K	0.07
600°C W/m.K	0.10
800°C W/m.K	0.14
1000°C W/m.K	0.19
1200°C W/m.K	0.25

Chemical Composition

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

Availability and Packaging

Superwool HT Paper is available in 500mm, 610mm, 1000mm and 1220mm wide rolls, packed in cartons.

Thick. mm	Length m
1	40
2	20
3	15
4	10
5	10
6	10
7	10
8	10
9	10
10	10

Non standard roll widths and lengths can also be supplied.

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.