

SAFFIL BLANKET (1600 HDB)

DESCRIPTION

Saffil blanket (1600 HDB) is a high temperature, lightweight, needled blanket manufactured from high purity polycrystalline wool with a polypropylene carrier to optimise strength and flexibility. Designed for use up to 1600°C, Saffil blanket (1600 HDB) can be used in a wide variety of applications. They are especially suited to environments where the presence of “shot” is undesirable or where resistance to corrosive agents is essential.

GENERAL CHARACTERISTICS

Saffil blanket (1600 HDB) has the following outstanding characteristics:

- High temperature stability (up to 1600°C)
- Low thermal conductivity
- Virtually ‘shot’ free
- Resistance to thermal shock & chemical attack
- High tensile strength & resiliency
- Insoluble in water
- Suited to veneer and anchored modules

TYPICAL APPLICATIONS

High temperature furnace, boiler & kiln linings

- Blast, forging, re-heat & heat treatment
- Ethylene, catalyst & sulphur heaters and reformers
- Porcelain, refractory, laboratory & dental kilns

Speciality applications

- Acoustic insulation
- Semiconductor processing & fuel cell components

TYPICAL PRODUCT PARAMETERS

Typical Chemical Analysis (fibre wt.%)

Al ₂ O ₃	95 - 97
SiO ₂	3 - 5
Trace	< 0.5

Physical Properties

Colour	White
Classification Temp. (°C)*	1600
Median Fibre Diam. (microns)	3 - 4
Product Density (kg/m ³)	96
Specific Heat at 1000°C (J/kgK)	1000
Loss on ignition (wt.%)	
from fibre	0
from blanket	<5



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Thermal conductivity

Mean Temp.

800°C	0.16
1000°C	0.23
1200°C	0.32

Permanent Linear Shrinkage (%) 6 Hour Soak

1500°C	<4
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**Classification Temperature is not a definition of the operational limit of these products, especially when long term physical or dimensional stability is a factor. For certain applications continuous use temperature limits may be significantly reduced.

AVAILABILITY

Thickness	Roll Width (mm)	Roll length (cm)
13	610	14.4
25	610	7.2

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