

# 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 <sub>2</sub> O <sub>3</sub>	95 - 97
SiO <sub>2</sub>	3 - 5
Trace	< 0.5

**Physical Properties**

Colour	White
Classification Temp. (°C)*	1600
Median Fibre Diam. (microns)	3 - 4
Product Density (kg/m <sup>3</sup> )	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

<b>Thickness (mm)</b>	<b>Roll Width (mm)</b>	<b>Roll length (m)</b>
13	610	14.4
25	610	7.2

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