

SECTION I : I.6



Superwool® Plus
Insulating fibre

The most energy efficient insulation

Superwool® Plus fibre is independently proven to be the most energy efficient fibrous insulation material; it provides superior insulation and reduces energy losses without occupying more space or using increased mass.

- Provides the lowest thermal conductivity compared to other tested AES and RCF blankets
- Reduces energy loss
- Provides significant energy cost savings
- Minimises the weight and thickness of the insulation layer
- Provides more...for less...

Superwool® Plus is independently tested to have the lowest thermal conductivity

At Morgan Thermal Ceramics we recognise that third party testing of our high performance insulation provides invaluable data in support of our in-house R&D results.

Our Superwool® Plus insulation blankets have been independently tested by a French laboratory in accordance with the ASTM C201 – 93(2009) standard test method for thermal conductivity of refractories.

Insulation tested includes:

- Superwool® Plus blankets of density :
128 Kg/m³ (8 lbs/ft³), 96 Kg/m³ (6 lbs/ft³) and 80 Kg/m³ (5 lbs/ft³)
- EU and non-EU Competitor AES blankets of density :
128 Kg/m³ (8 lbs/ft³) and 96 Kg/m³ (6 lbs/ft³).

Superwool® Plus is proven to present...

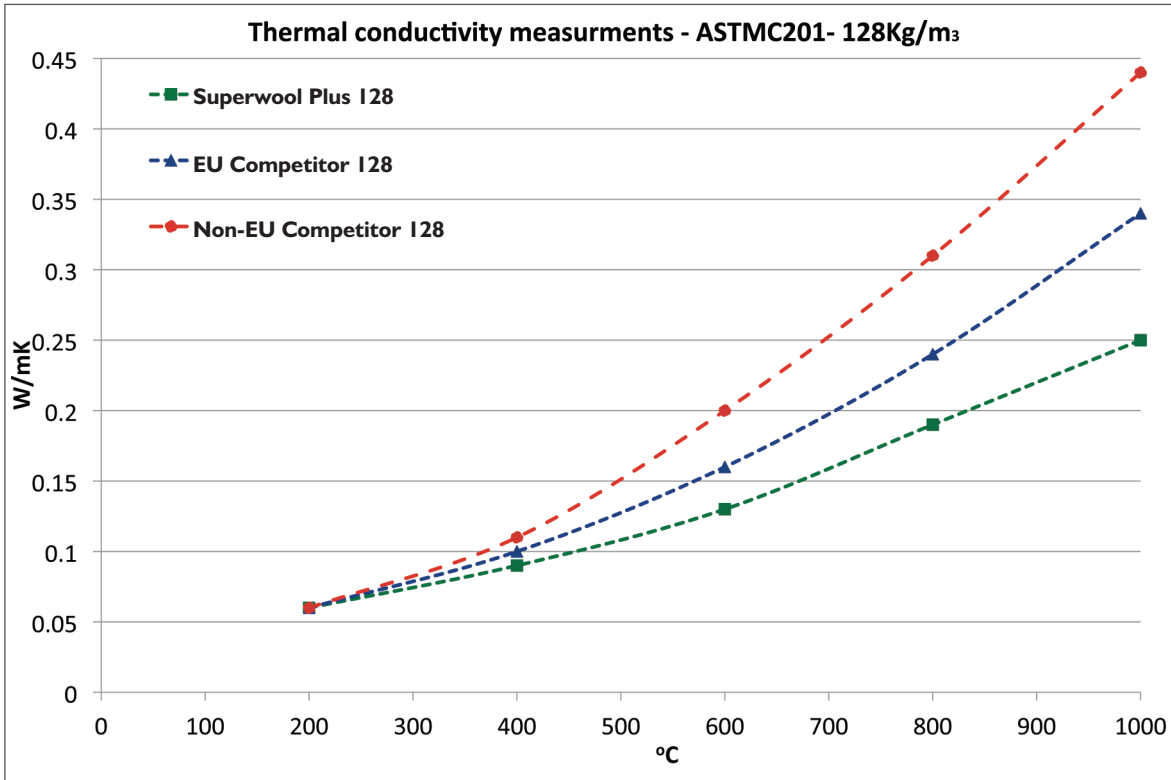
...up to 40% lower thermal conductivity than competitive insulation at 1000°C

The results:

The results clearly demonstrate that Superwool® Plus fibre:

- Has superior thermal insulation properties
- Is the most energy efficient insulation
- Enables you to save energy and associated costs
- Enables you to use a lower density or thinner blanket and achieve the same or even better insulation performance

Test I - Superwool® Plus blanket 128 Kg/m³

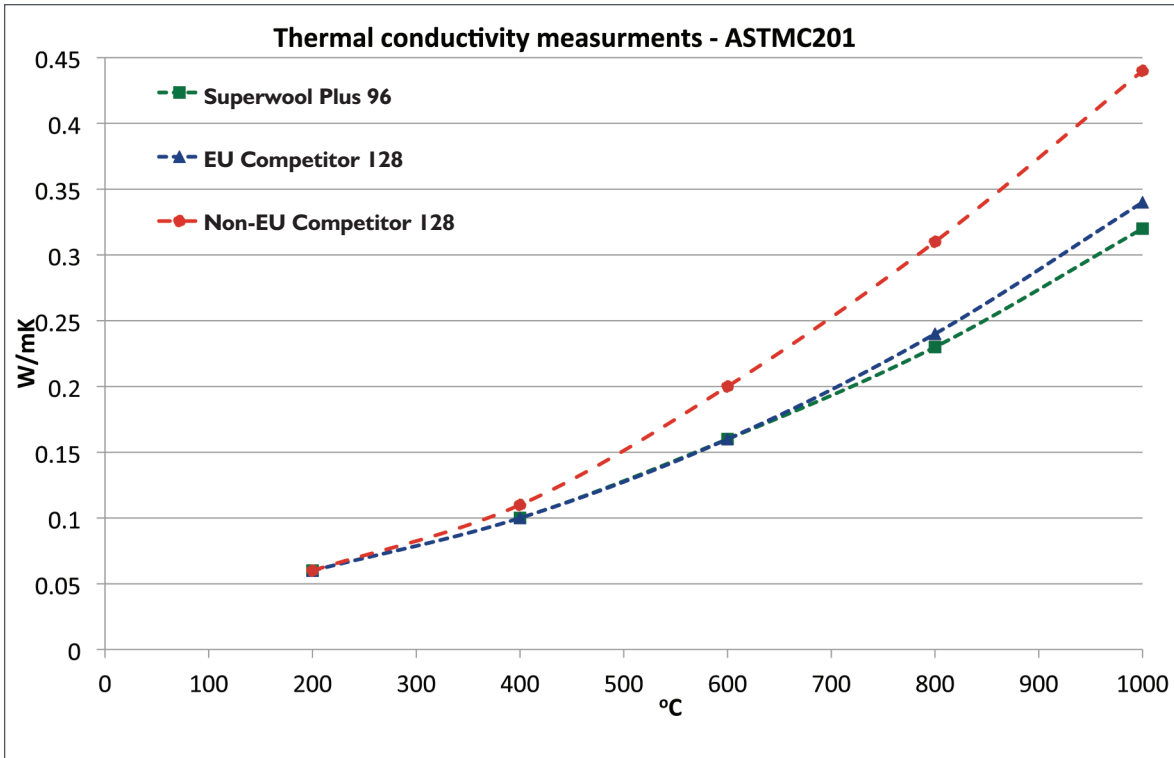


Back to Basics

Superwool® Plus insulation blanket 128 Kg/m³:

- Has the lowest thermal conductivity compared to all other blankets of the same density
- Is the most energy efficient insulation
- Gives a better thermal insulation performance
- Enables you to make energy savings
- Enables you to make significant cost savings

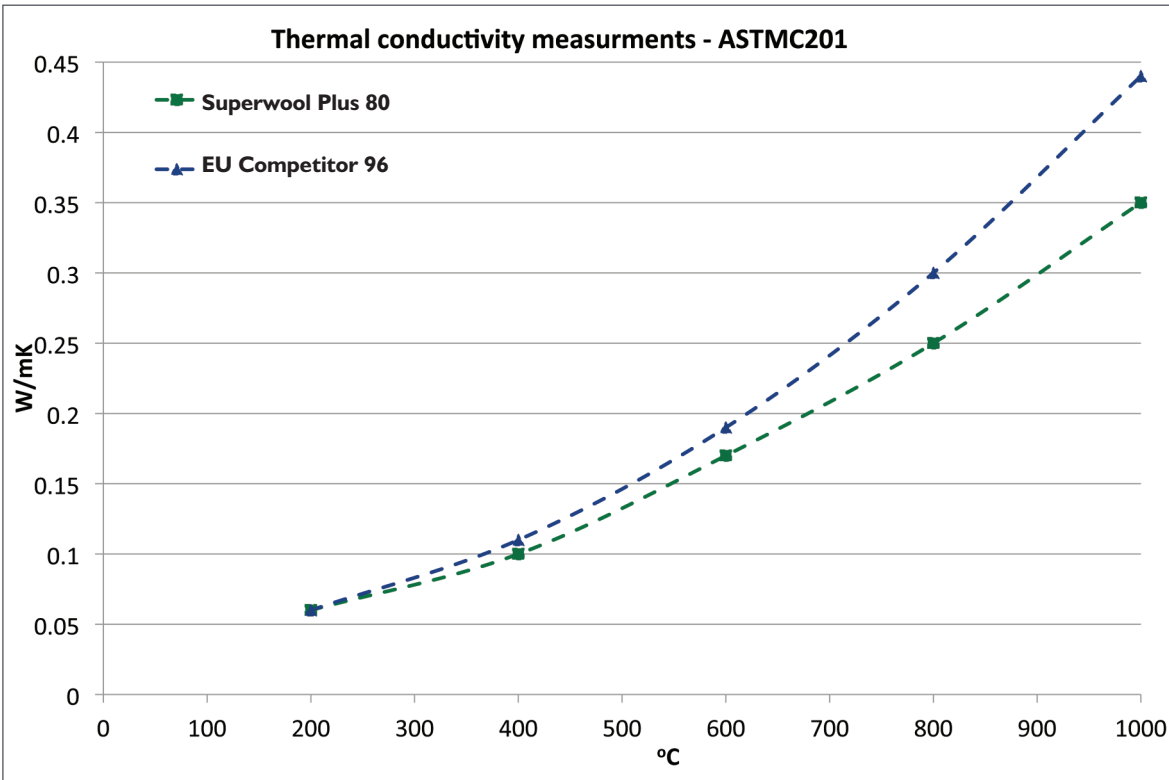
Test 2 - Superwool® Plus blanket 96 Kg/m³



Superwool® Plus insulation blanket 96 Kg/m³:

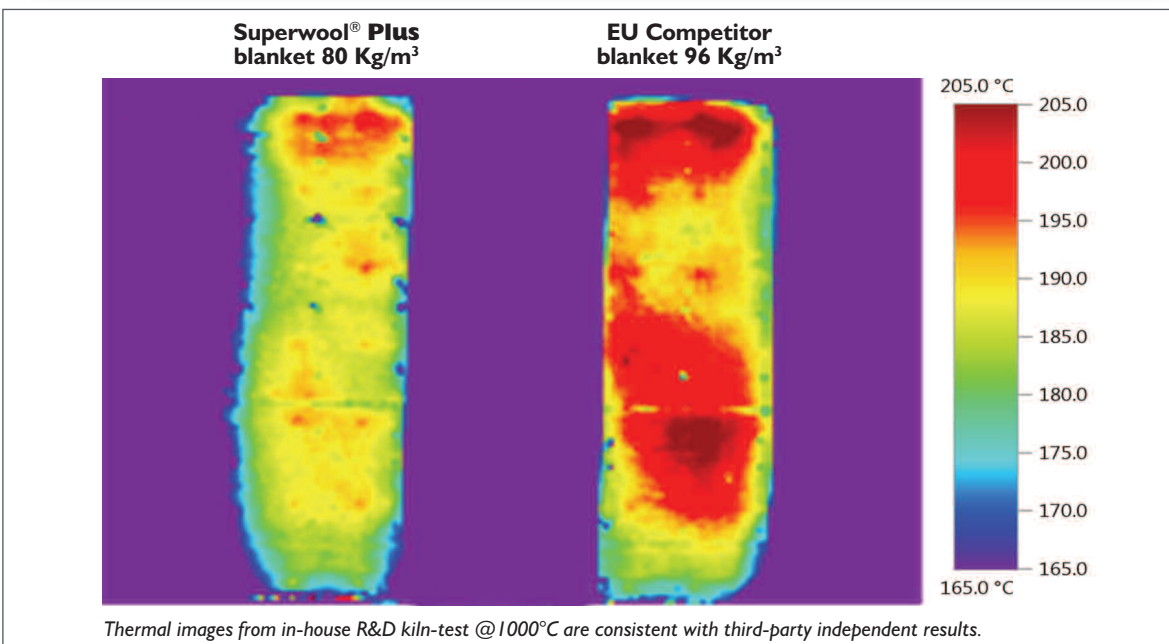
- Enables you to make weight savings
- Allows you to use a lower density or thinner blanket and achieve the same high insulation performance
- Has a lower thermal conductivity than competitive AES 128Kg/m³ blanket
- Enables you to make significant cost savings

Test 3 - Superwool® Plus blanket 80 Kg/m³



Superwool® Plus insulation blanket 80 Kg/m³:

- Allows you to use a lower density blanket and achieve a better insulation performance
- Has a lower thermal conductivity than competitive AES 96Kg/m³ blankets
- Enables you to make significant cost savings
- Enables you to make weight savings



Back to Basics

Superwool® Plus

Insulating fibre

Features

Benefits

An engineered solution (unique)	Takes insulation beyond normal performance
Patented technology	Proven chemical formulation
High temperature insulating wools (Superwool® range of products) not classified according to European Regulation (EC) 1272/2008	Restrictions on use do not apply. No special requirements for dust control, can be supplied to the general public and considered as non-hazardous waste for disposal
Lower thermal conductivity	Improves insulation by 20%
Up to 30% more fibres	Efficient prevention of heat transfer and greater strength
Less shot	Cleaner workplace
High Fibre Index	Up to 20% reduction in thermal conductivity giving energy saving
Stronger with good handleability (no tearing)	Ease of installation saving time and waste
Improved handling	Operator satisfaction
Soft & smooth feel	Less mechanical skin irritation
Consistent use of pure raw materials	Higher classification temperature, low shrinkage and consistent quality
Lower density grade for the same result	Material weight savings up to 25%
Thinner lining for the same result	Create more working space within unit
Resistant to vibration	Allows long lifetime under vibration conditions where other products fail
An environmental solution	Potential savings on waste disposal
Worldwide production	Availability