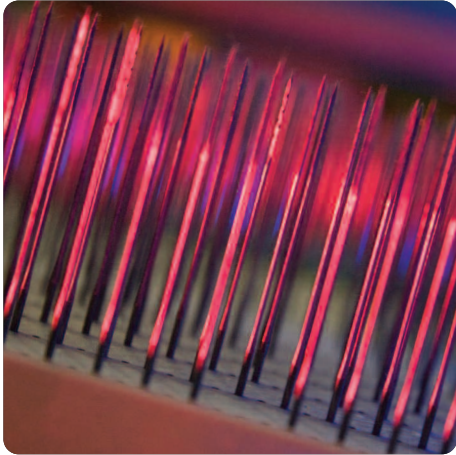


SECTION I : 1.8



Up to 30% more fibres...

...efficient prevention
of heat transfer and greater
strength

A stronger blanket is desirable for easy installation and handling. The more fibres available to link together the stronger the product.

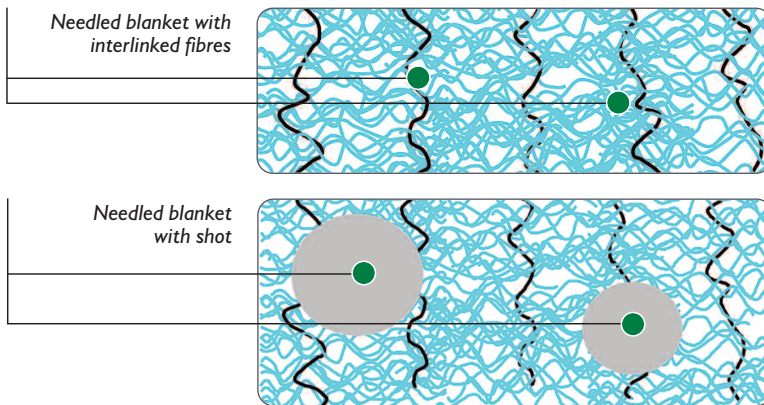
- Up to 30% more fibres give a higher potential for good tensile strength
- Maximum in-service performance
- Good handleability with no breakages
- Low installation costs
- Stronger than any other tested AES blanket and equal to RCF blanket

Tensile strength explained

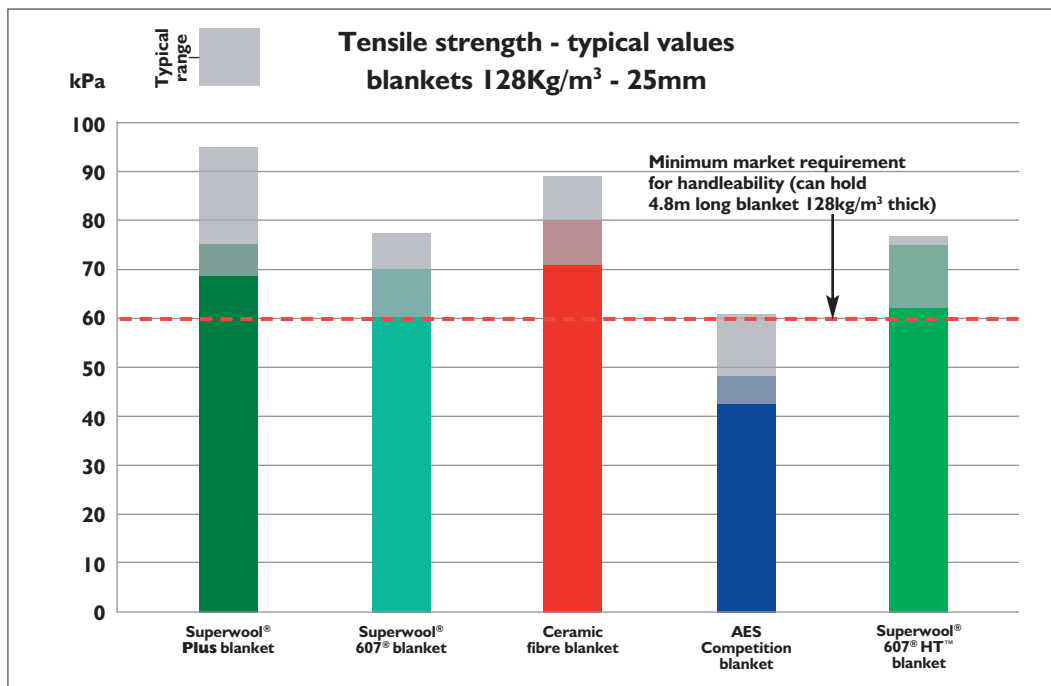
Fibre blankets derive their tensile strength (important for resistance to pulling apart during installation) from the interlinking of fibres during manufacture. The more fibres that are available to link together, the stronger the product. Superwool® Plus fibre has approximately **30% more fibres** per unit mass than competitor products giving a higher potential for good tensile strength.

Good tensile strength

The tensile strength of a blanket is a measure of the load that can be put onto the end of a blanket before it is pulled into pieces. In practice, a stronger blanket is desirable for easy installation and handling. Pieces should not break or crumble in the hand when a long length is gripped and suspended.



The graph shows a comparison of tensile strengths measured for a typical range of blankets over a given time.



Tensile strength test

The higher the tensile strength, the longer the section of blanket can be suspended, before its own weight causes it to rip at the hand grips.

Sufficient and consistent density of fibres throughout a full roll of blanket is important for tensile strength and to withstand tearing or breakages when fully suspended.



Test 1

Superwool Plus Tensile
Strength Test 128kg/m³ (8lbs/ft³)
25mm (1 inch) suspended 8m (26.5ft)
from ground

Blanket tears where there are not enough fibres or they are variable in areas.

Superwool® **Plus** blanket offers 30% more fibres in a consistent density which enables it to withstand the suspended tensile strength test for over 3 minutes.

Test 1

A full roll of a Superwool® **Plus** blanket was suspended 8m from the ground at full length of 7.32m.

After more than 3 minutes, Superwool® **Plus** blanket did not break.



Test 2

Competitor AES Tensile
Strength Test 128kg/m³ (8lbs/ft³)
25mm (1 inch) suspended 8m (26.5ft)
from ground

Test 2

A full roll of competitor AES blanket was suspended 8m from the ground at full length.

The blanket failed in under a minute.



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