Superwool® Prime Blanket

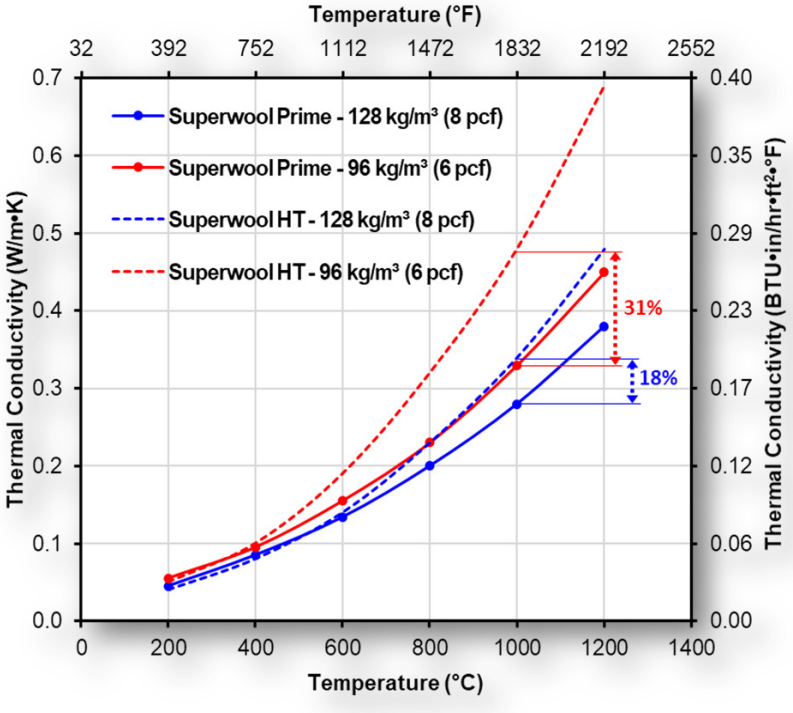
The newest evolution in our Superwool low biopersistent fibre portfolio, Superwool Prime is developed for high-performance applications with a classification temperature of 1300°C (2370°F).

Superwool Prime features physical and thermal performance equivalent or better to our market leading Superwool Plus.

- High-temperature capability providing increased resiliency for processes and safety of employees
- Superior thermal conductivity: 0.28 W/m•K, 1000°C, 128 kg/m³ (2.25 BTU•in/hr•ft²•°F @ 2000°F), 18% lower than Superwool HT
- Excellent handleability, flexibility and tensile strength due to low shot fibre technology and chemistry

Superwool Prime

Energy | Emissions | Environment



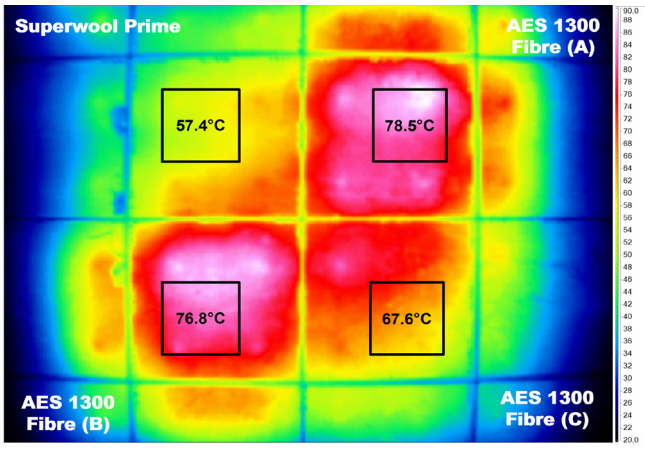
- Compared to the published PDS values for Superwool HT, the thermal conductivity of Superwool Prime Blanket at 1000°C (1832°F) for 128 kg/m³ (8 pcf) density, is 18% better
- This advantage increases up to 31% for 96 kg/m³ (6 pcf) density blanket and becomes significantly larger at 1200°C (2192°F)

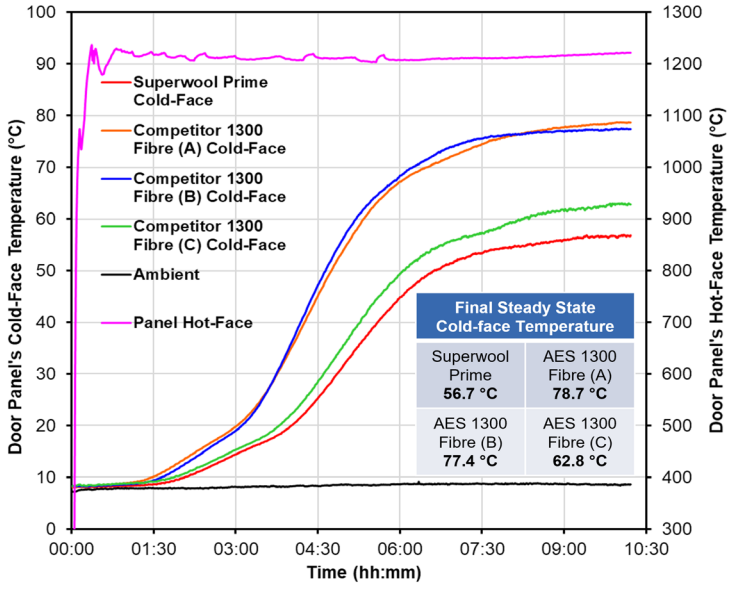
1300 classification fibre delivering energy savings, improved application efficiency, and reduced emissions

Thermal Performance Benchmarking

Superwool Prime
Energy | Emissions | Environment

A panel test at our Fibre Center of Excellence was completed to compare the real-world thermal performance of blanket-stack modules made from Superwool Prime with 1300°C (2370°F) grade LBP fibre insulation with market competition.





- The thermal image above illustrates, through color, transitioning from the blue of the cold face panel to formed hot spots in red/pink on the panel.
- All modules used in panel tests were 300mm (12in) thick, 182 kg/m³ (11.4 pcf) density installed using the M-type anchors. No backup insulation.

Product Data Properties

	Superwool Prime	Superwool HT
Classification Temperature, °C (°F), EN 1094-1	1300 (2370)	1300 (2370)
Continuous Use Temperature, °C (°F)	1150 - 1200 (2100 - 2190)	1150 (2100)
Density, kg/m³ (pcf), EN 1094-1	64, 80, 96, 128, 160 (4, 5, 6, 8, 10)	64, 96, 128, 160 (4, 6, 8, 10)
Tensile Strength, kPa (psi), EN 1094-1		
Measured density, kg/m³ (pcf) 96 (6)	50 (7.25)	50 (7.25)
128 (8)	72 (10.44)	75 (10.88)
160 (10)	105 (15.23)	90 (13.05)

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Thermal Ceramics is a business of Morgan Advanced Materials

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