



## Thermal Insulation Materials

# Cerachrome Insulation Blanket



Cerachrome is a spun fibre refractory blanket that offers excellent thermal stability and insulating performance. The combination of long spun fibres and the needling operation produces tough blankets that are strong and will perform in even the harshest of environments. This grade of refractory blanket is unaffected by most chemicals except hydrofluoric and phosphoric acids and strong alkalis. They possess low heat storage, good sound absorption, and resists tearing both before and after heating. Cerachrome blanket has excellent thermal stability due to the fibres having good resistance to devitrication and is commonly used to insulate furnaces, boilers, ducting and pipework.

### Technical Data:

Property:	Typical Value:	
Colour	Blue/Green	
Temperature Classification	1425°C	
Tensile strength, 23°C 50% RH:		
Density, 64 kg/m <sup>3</sup>	30 kPa, EN 1094-1	
Density, 96 kg/m <sup>3</sup>	65 kPa, EN 1094-1	
Density, 128 kg/m <sup>3</sup>	85 kPa, EN 1094-1	
Permanent linear change after 24 hours isothermal heating at:		
1000°C	1.5%, ASTM C-210	
1100°C	2.2%, ASTM C-210	
1200°C	2.7%, ASTM C-210	
1300°C	3.5%, ASTM C-210	
1400°C	4.0%, ASTM C-210	
1500°C	5.0%, ASTM C-210	
Thermal conductivity at mean temperature of:		
Density -	96 kg/m <sup>3</sup>	128 kg/m <sup>3</sup>
200°C	0.06 W/m.K	0.06 W/m.K
400°C	0.11 W/m.K	0.10 W/m.K
600°C	0.16 W/m.K	0.15 W/m.K
800°C	0.23 W/m.K	0.20 W/m.K
1000°C	0.32 W/m.K	0.27 W/m.K
1090°C, specific heat	1.13 kJ/kg.K	
Chemical Composition:		
Al <sub>2</sub> O <sub>3</sub>	42.7%	
SiO <sub>2</sub>	54.5%	
Cr <sub>2</sub> O <sub>3</sub>	2.8%	
Fe <sub>2</sub> O <sub>3</sub> + TiO <sub>2</sub>	0.15%	
CaO + MgO	0.10%	
Na <sub>2</sub> O + K <sub>2</sub> O	0.10%	

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#### Important

This information should not be treated as a substitute for specific technical advice. AG does not offer such advice and cannot warrant the performance or suitability of products for particular applications.



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### Applications:

- Gas and steam turbine insulation
- High temperature filter media
- Kiln and furnace lining
- Pipe insulation and duct lining
- Thermal barriers and boiler insulation
- Furnace door and hatch seals
- Heat treatment temperature control
- Duct lining and glass furnace insulation



### Availability:

Cerachrome Blanket is available in the following sizes...

13mm thick, 96 and 128 kg/m<sup>3</sup> densities. 14.6m long x 610mm wide. 8.93m<sup>2</sup> per roll.

25mm thick, 96 and 128 kg/m<sup>3</sup> densities. 7.3m long x 610mm wide. 4.46m<sup>2</sup> per roll.

19mm thick and 1220mm wide rolls are available upon request.

Associated Gaskets stock a large range of flexible and rigid thermal insulation, as well as sheet gasket material and specialised electrical products. For more information on these products and many more, please visit our website or call your nearest AG branch.

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