TECHNICAL DATA SHEET

# PRO CERAMIC BLANKET 1600

Pro Ceramic Blanket 1600 are made from high purity polycrystalline clay fibres, a special extrusion process ensures the highest level of chemical purity and the lowest level of non-fibrous components. The processing of the fibres gives them exceptional shrinkage resistance and high temperature chemical resistance, maintaining excellent elasticity and resilience. Pro Ceramic Blanket 1600 are designed for use at temperatures up to 1600$^{O}$C.

**General product features**

- High temperature stability (up to 1600 $^{O}$C)
- Low thermal conductivity
- Resistance to thermal shock and chemical attack
- High tensile strength and elasticity
- Insolubility in water
- Suitable for veneered and anchored modules

**Typical applications**

- High-temperature furnace, boiler and standard furnace
- Shot blasting, forging, reheating and heat treatment
- Ethylene, catalyst and sulphur heaters and reformers
- Porcelain, refractory, laboratory and dental furnaces
- Specialty applications
- Sound insulation
- Semiconductor processing and fuel cell components

| Chemical composition (% by weight of fibre) | |
|---|---|
| $Al_2O_3$ | 95 – 97 |
| $SiO_2$ | 3 – 5 |
| other | < 0,5 |
| Physical characteristics | |
| Color | White |
| Temperature of use ($^OC$) | 1600 |
| Loss on ignition (% by weight) | |
| Average fibre diameter (microns) | < 0,5 |
| Density (kg/$m_3$) | 100 |
| Specific heat in 1000 $^OC$ (J / kgK) | 1000 |
| Thermal conductivity (W/m.K) | |
| *Mean temperature* | |
| 800 $^OC$ | 0,16 |
| 1000 $^OC$ | 0,23 |
| 1200 $^OC$ | 0,32 |
| Tensile strength (kPa) | |
| 1500 $^OC$ | < 4 |