

## **CCEWOOL® Soluble Fiber Blanket**

### **Description:**

CCEWOOL® soluble fiber blanket is made from alkaline earth silicate fiber, which is developed from a calcium, magnesium, silicate chemistry to provide thermal insulation. Due to it can be soluble in body's fluid, it is named of bio soluble fiber. This special fiber is made from a blend of calcium, silica and magnesium which give fiber the ability to support continuous temperatures up to 1200°C.

### **Characteristic:**

- Low thermal conductivity
- Low thermal storage
- High tensile strength
- Thermal shock resistance
- Lightweight
- Excellent corrosion resistance

### **Application:**

- Reusable insulation for steam and gas turbines
- High-temperature kiln and furnace insulation
- Furnace door linings and seals
- Furnace repairs
- Boiler and incinerator linings
- Seals and gaskets
- Automotive heat shields
- Appliance insulation
- Fire protection
- Duct, stack and flue linings
- Molten metal splash protection

**Technical data:**

| <b>CCEWOOL® Soluble Fiber Blanket</b>             |         |     |     |
|---|---------|-----|-----|
| Classification temperature                        | 1200 °C |     |     |
| Density kg/m <sup>3</sup>                         | 96      | 128 | 160 |
| Tensile strength Kg/m <sup>3</sup> , EN1094-1 kPa |         |     |     |
| 128kg/m <sup>3</sup>                              | 75      |     |     |
| Permanent linear change on reheating, %, EN1091-1 |         |     |     |
| After 24 hours<br>@1000°C                         | 1.5     |     |     |
| Thermal conductivity, W/m.K ASTM C-201            |         |     |     |
| temperature<br>@400°C                             | 0.1     |     |     |
| @600°C  | 0.15    |     |     |
| @800°C  | 0.2     |     |     |
| @1000°C   | 0.28    |     |     |
| Max short term exposure                           | 1200 °C |     |     |
| Operation temperature                             | 1000 °C |     |     |
| Melting point                                     | 1270 °C |     |     |
| Chemical composition(%)                           |         |     |     |
| SiO <sub>2</sub>                                  | 65-68   |     |     |
| CaO   | 27-33   |     |     |
| MgO   | 2-7     |     |     |
| Others  | 0-1     |     |     |

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**Size:**

| Thickness<br>mm | Density kg/m3 |     |     | Length<br>mm | Width<br>mm |
|-----------------|---------------|-----|-----|--------------|-------------|
|                 | 96            | 128 | 160 |              |             |
| 13              | √             | √   | ○   | 14640        | 610, 1220   |
| 19              | √             | √   | ○   | 9760         |             |
| 25              | √             | √   | √   | 7320         |             |
| 38              | √             | √   | √   | 4880         |             |
| 50              | √             | √   | -   | 3660         |             |

**Note:**

(○) and 1220mm width can be customized according to customer (order amount should not be less than the minimum order quantity)

(√) for conventional products