

## Darco **DCFRxxSQ, CFRSxxB/WR** Square Ceramic Braided Rope

**ISOTEK** Square braid is dense, resilient, high performance ceramic fibre material plaited from E-glass, stainless steel wire or high temperature alloy wire inserted ceramic fibre yarn to form a packing in square section. It is widely used for a broad variety of high temperature gasketing, packing and sealing application, especially when a material of even higher density and greater resilience than rope is required.



**ISOTEK** Square braid contains approximately 18% organic fibre which burns out at high temperatures, causing some smoking and out-gassing, but has no effect on the properties of the products.

| Technical Data              |   |  |
|-----------------------------|---|--|
| Properties                  | 1260 Range  | 1430 Range   |
| Max. Temp. Rating           | 1260°C  | 1430°C   |
| Melting Point               | 1760°C  | 1740°C   |
| Temperature Limit of insert | Glass: 650°C<br>Steel: 1100°C   | Alloy Wire: 1300°C   |
| Ceramic Fibre Composition   | Al <sub>2</sub> O <sub>3</sub> 46%, SiO <sub>2</sub> 53%, ZrO <sub>2</sub> 0% | Al <sub>2</sub> O <sub>3</sub> 28-32, SiO <sub>2</sub> 52-56,<br>ZrO <sub>2</sub> 14-18% |
| Diameter of Ceramic Fibre   | 3-4 micron  | 3-4 micron   |
| Thermal Conductivity        | <0.18 W/mK at 1000°C  | <0.18 W/mK at 1000°C   |
| Shrinkage (24hr)            | 3% at 1150°C  | 3% at 1350°C   |
| Loss on Ignition            | 18%   | 18%  |
| Electrical                  | Glass: Non-Conductive<br>Steel: Conductive                                    | Alloy Wire: Conductive   |
| Density                     | 550-850kg/m <sup>3</sup>  | 600-900kg/m <sup>3</sup>   |
| Colour                      | White   | White  |

### Typical Applications

- Asbestos packing replacement
- Radiant tube packing for heat-treat furnaces
- Expansion joint packing for furnaces
- Seals for stoves and ovens
- Bulb in tadpole gaskets
- Door seal insulation

### Availability

- 6 - 50mm
- Custom sizes available upon request.