**Rigid Carbon Insulation**

**CBCF 14VF-2000**

## GENERAL

Homogeneous carbon rigid insulation made from carbonised short rayon fibres and designed for high temperature insulation. Carbon Bonded Carbon Fibre (CBCF)

## TYPICAL CHARACTERISTICS

### English Units | SI Units
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Bulk Density | 8.7 +/- 1.87 lbs/ft³ | 0.14 +/- 0.03 g/cm³
Flexural Strength | 239.3 psi | 1.65 MPa
Compressive Strength (// to fiber orientation) | 158.1 psi | 1.09 MPa
Compressive Strength (┴ to fiber orientation) | 33.4 psi | 0.23 MPa
Electrical Resistivity | 0.30 Ω.in | 125,000 µΩ.cm
Coefficient of Thermal Expansion (0 to 1000° C) | 1.7 +/- 0.2 x 10⁻⁶ /°F | 3.0 +/- 0.3 x 10⁻⁶ /°C
Coefficient of Thermal Expansion (1000 to 2000° C) | 1.5 +/- 0.2 x 10⁻⁶ /°F | 2.6 +/- 0.3 x 10⁻⁶ /°C
Water absorption after 6 months in standard conditions | <0.1% | <0.1%

## TYPICAL APPLICATIONS

Industrial, photovoltaic and CZ furnaces working under vacuum or inert gas up to 3000°C, dependant on system pressure.

CBCF 14VF-2000 grade is the optimum thermal insulation material produced by Mersen Scotland Holytown Ltd.

CBCF 14VF-2000 can be provided in a purified form.

Contact sales.hlt@mersen.com for further information.

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Our materials are in conformity with the RoHS-Directive (Restriction of the use of certain Hazardous Substances in electrical and electronic equipment). Besides Mersen guarantees the application of the European Community REACH-Regulation (Registration, Evaluation, Authorization and Restriction of Chemical substances) to all its plants located in Europe.

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