

3C150 CARBON FIBRE COMPOSITE

High strength light weight material, for use as structural components. Its high strength to weight ratio makes it the ideal choice for structural assemblies and fixtures for work piece support in vacuum, sintering and HIP furnaces. Typical designs can yield greatly increased charge capacities of between 30 & 50%.

TYPICAL PROPERTIES ARE:

Density 1.65 g/cc

Flexural strength 150 MPa

Compressive strength 150 MPa

Thermal conductivity

Parallel 10-12 W/mK

Perpendicular 4-5 W/mK

Coefficient of Thermal Expansion

Parallel $1-2 \times 10^{-6}$ /K

Perpendicular $6-8 \times 10^{-6}$ /K