

## Carbon Ceramic Brake Rotor



This carbon ceramic brake rotor has a special three dimensional carbon base which is made of long fibers. It is obtained through a proprietary process which gives the possibility of depositing a layer of material on both mating surfaces to improve the friction coefficient. The three dimensional carbon base provides higher strengths than the traditional short fiber bases and ensures more of a safety factor on tough extreme applications.

### Technical Data:

#### Physical Properties:

Density/ g/cm <sup>3</sup>	2.0±0.05
Tensile Strength/ MPa	87
Compressive Strength/ MPa	212
Bending Strength/ MPa	189
Interlaminar Shear Strength/ MPa	26
In-plane Shear Strength/ MPa	49
Room Temperature Specific Heat/ J/kg·K	1140-1880(RT-1200°C)
Thermal Conductivity/ W/mK	40~50

#### Frictional Properties:

Dry	0.27~0.35
In Fresh Water	0.29~0.35
In Sea Water	0.24~0.29
@Static	0.35~0.55