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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/cm3 | 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℃) |
| 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 |

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