

## Special prepregs for CMC (Ceramic Matrix Composites)

The special prepregs\*) for CMC (Ceramic Matrix Composites) sold by our company are suitable for CMC applications with operating temperatures of 1000°C or less under oxidizing atmospheres (It can also be designed to withstand short-term heat up to approximately 3000°C). The main products include alumina fiber and silicon carbide fiber prepreg sheets for CMC applications. Since this prepreg has excellent formability, it can be molded into various shapes, and it is easy to finish the product. In addition, any reinforcing fiber and matrix material can be selected as the material for the prepreg, and various performance can be designed.

\* Shonan-AML, Inc. Patented Products

Reinforcing fibers Roving, Fabric	Matrix Sandwich core	Performance purpose (Easy workability)
Alumina Fiber (Al <sub>2</sub> O <sub>3</sub> -Fiber) Roving, Fabric	Al <sub>2</sub> O <sub>3</sub>	Light weight · high strength · radio wave transparency
	SiC	Light weight · high strength · high rigidity
Silicon Carbide Fiber (SiC-Fiber) Roving, Fabric	Si <sub>3</sub> N <sub>4</sub>	Light weight · high heat resistance · high thermal conductivity
	Al <sub>2</sub> O <sub>3</sub> -Fiber Nonwoven fabric	Light weight · high strength · high stiffness

