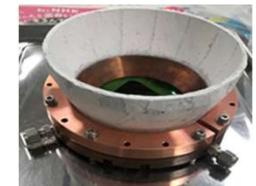
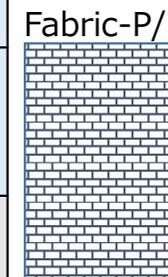
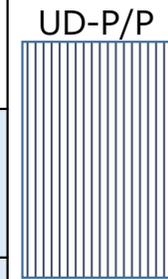


SAML/Almedio CMC, Prepregs for CMC

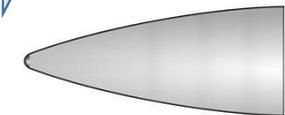
By changing the type and combination of reinforcing fibers and matrix, it is possible to satisfy the required properties of CMC.

Complex shaped CMC can be made using the lamination method that uses prepregs, which is common in CFRP.

Reinforcing Fiber Roving, Fabric	Matrix Sandwich Core	Performance purpose (Easy workability)
Alumina fiber (Al ₂ O ₃ -Fiber) Roving, Fabric	Al ₂ O ₃	Light weight · high strength · radio wave transparency
	SiC	Light weight · high strength · high toughness
Silicon carbide Fiber (SiC-Fiber) Roving, Fabric	Si ₃ N ₄	Lightweight · high heat resistance · high thermal conductivity · radio wave transparency
	Al ₂ O ₃ -Fiber Nonwoven fabric Al ₂ O ₃	Lightweight, high strength, high rigidity, high heat insulation, radio wave transparency



Nozzle Thruster



Nosecone

Hypersonic projectile trajectory and aerodynamic heating

