NORTHFORGE
MATERIALS AND
COMPOSITES

MATERIALS ENGINEERING

Markets We Serve

NorthForge tailors composite resin systems to the loads, environments, and functional requirements of each application.



Marine

For hulls, decks, and structural panels, NorthForge develops laminates that resist water ingress and osmotic blistering. We tailor the resin system to improve impact resistance, increase flexural modulus, limit microcrack growth, and spread heat. We can also tune surface lubricity for lower friction and strengthen interply bonds to improve delamination resistance.



Space

For satellite frames, deployers, panels, and other structures, NorthForge tailors lightweight laminates for impact tolerance, flexural stiffness, heat spreading, and surface lubricity. The resin system can also help resist moisture, microcracking, and delamination. Conductive formulations can add electromagnetic shielding, including RF shielding tuned to the program's frequency bands.



Defence

NorthForge develops lightweight composite housings for unarmed inspection drones, field equipment enclosures, protective transit cases, and support panels. We tailor the resin system for impact resistance, moisture resistance, and heat dissipation, helping equipment withstand repeated handling and environmental exposure while reducing weight.

Discuss your application with NorthForge.

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