Access to Engineering Insight

We bring 114 years of ceramics engineering experience to our customers. Our engineers’ expertise provides guidance in material selection, design-to-manufacture geometry and cost effective production.

Full Spectrum Process Control

The performance of a ceramic component is dependent on the consistency and quality of its material properties. That’s why we control every aspect of manufacturing; from raw material through to finished component. Powder preparation, forming, green machining, sintering and diamond grinding are all governed by the same principles of total quality management.

Nimble Service Culture

In the larger world of ceramics, we’re a small firm located in Vermont. We pride ourselves on providing direct access to our key team members and quick response times for our customers.

Contact our team:

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Ceramics Solutions for Aviation & Aerospace

Materials Engineering Consulting
Design Support
Custom Manufacturing Services

600 INDUSTRIAL PARK RD. ST. ALBANS, VT 05478
WWW.CERAMICS.NET
STC designs and manufactures technical ceramics for the aerospace industry, including instrumentation, control, engine monitoring, guidance, optics and turbine ignition systems.

Our services include prototyping, materials design consulting, prototype production and volume manufacturing. Our engineers partner with the largest suppliers in the Aviation & Aerospace industry in the development of technical ceramics solutions, to the most demanding requirements.

STC maintains both AS 9100 and ISO 9001 certifications as well as ITAR Supplier compliance.

We’re large enough to have complete in-house capabilities while remaining small enough to provide attentive and timely service.

**Aviation & Aerospace**

**Aerospace Applications:**
- Instrumentation
- Electro-optics
- Armor Panels
- Engine Monitoring
- Missile Guidance Systems
- Satellite Positioning Equipment
- Gyroscopes
- Vibration Sensors
- Electrical Feed-Throughs
- Filtration
- Advanced Semiconductor Packaging

**Materials Used:**
- Alumina
- Zirconia (YTZP, MSZ, CSZ)
- Silicon Nitride (Si3N4)
- Aluminum Nitride (AlN)
- Silicon Carbide (SiC)
- Ceramic/Metal Assemblies
- Macor (Machineable Glass Ceramic)
- Porous Filter Media
- Ceramic Glazes

**Contact Information:**

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Call (802) 527-7726 x292