

**A WORLD-LEADER IN
ADVANCED
COMPOSITE MATERIAL
SYSTEMS AND
SOLUTIONS FOR
CHALLENGING
ENVIRONMENTS**

**Composite Technology
Development, Inc.
2600 Campus Drive, Suite D
Lafayette CO 80026**

COMPOSITE TECHNOLOGY DEVELOPMENT, INC.

ENGINEERED MATERIAL SOLUTIONS

COMPOSITE TECHNOLOGY DEVELOPMENT, INC

Engineered Material Solutions

Since 1988, CTD's materials and composite-enabled solutions deliver mission success in some of the most challenging and harsh environments including space exploration, superconducting and high-performance magnets, cryogenic devices, electrical motors, and other applications where high-strain and thermally stable materials provide an advantage over heritage systems.

Where Failure is Not an Option

CTD's materials set the mark for systems enabled by lightweight and high-strain composites. These materials exhibit high-strain to failure, high radiation and wear resistance, low coefficient of thermal expansion (CTE), microcrack resistance, and perform both at the extremes of cryogenic temperatures and the high-temperatures of aerospace and industrial environments.

CTD looks forward to partnering with you to enable you mission success!



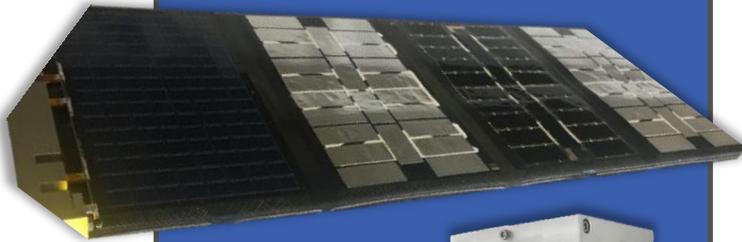
Composite Pressure Vessels

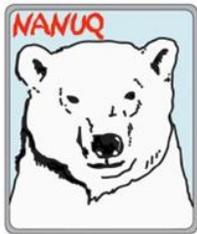


Marine & Specialty Composites



Deployable Systems for Aerospace





**NANUQ®
Electrical Insulation**

- Used in the highest-performing magnets in the world
- Epoxy and cyanate ester-based systems
- US Patents 6407339, 7892597

**CryoCoat™
Thermal Insulation**

- Excellent thermal and mechanical properties
- Tailorable formulations
- Processing flexibility
- Qualified for use on launch vehicles and the space station



**TEMBO® Shape
Memory Polymers**

- Replaces traditional, massive mechanisms
- Enables highest stowage efficiency
- Deployment provides motive force and accurate return to as-manufactured shape (low creep)

**KIBOKO®
Structural Resins**

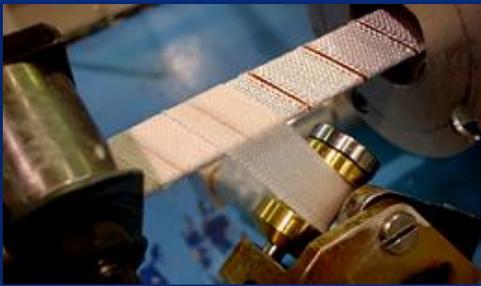
- Used for structural applications that operate at ambient & cryogenic temperatures
- Versatile resin systems with wide applicability including pressure vessels, high strain parts, and fusion devices

**RESIN SYSTEMS
TAILORED TO MEET
THE MISSION AND
MANUFACTURING
REQUIREMENTS**

**ENGINEERING
APPROACH TO
MAXIMIZE IMPACT
OF UTILIZING
COMPOSITE
MATERIALS**

**CUSTOMER
SUPPORT FROM
DESIGN THROUGH
DISPOSAL**

Engineered Polymers



Testing & Engineering Services



Core Competencies

Material Formulation and Development

- Epoxy
- Cyanate Ester
- Bismaleimide
- Benzoxazine
- Silicone

Advanced Engineered Polymers, Composites and Adhesives

Electrical and Thermal insulation materials

High temperature, high thermal conductivity, wear and radiation resistant systems

Shape memory polymers and composites

High strain composite structure design, fabrication, and analysis

Composite Technology Development, Inc. (CTD) specializes in developing state-of-the-art materials and products for extreme conditions and demanding applications. Since its founding in 1988, the company has built a diverse portfolio of sophisticated engineering solutions, as well as a reputation for innovative problem solving, and outstanding customer service and communication

CTD VISION

CTD strives to be a world leader in advanced materials and system solutions for challenging environments by delivering superior value to our customers in a responsible and ethical manner

CTD APPROACH

Balanced fundamental research and development with prioritized innovation and partnerships that are aligned with our core value of economic commercial viability

*Composite Technology Development, Inc.
2600 Campus Drive, Suite D
Lafayette, Colorado 80026
303-664-0394 www.ctd-materials.com*