

# High-Performance Materials for Military & Defense Applications

## Engineered for Mission-Critical Reliability

In military and defense environments, failure is not an option. Rogers materials are trusted for long-term performance in the most demanding applications—where heat, vibration, weather, and combat conditions push systems to the limit.

Our high-performance elastomeric materials deliver long-term reliability, consistent sealing, and flame-resistant protection that holds up mission after mission.

We solve tough challenges for:

- Flame resistance & thermal protection
- Sealing & gasketing under extreme conditions
- Vibration, shock & acoustic damping
- Performance across broad temperature ranges
- Electrical insulation & environmental shielding



## Application Areas

### Air

- Aircraft, Helicopters, and UAVs  
Cockpit seals, acoustic panels, thermal insulation
- Integrated Air Defense Systems  
EMI shielding, vibration control, gasketing

### Land

- Military Vehicles  
Seat cushions, vibration pads, gasketing
- Batteries & Power  
Fire barriers, cell-to-pack seals, venting membranes
- Wire & Cable  
Wraps, jackets, electrical insulation

### Sea

- Naval & Submarine Systems  
Sound blocking, flame protection in enclosed spaces, gasketing
- Underwater Electronics  
Environmental seals, insulation, and protection for sensitive components

### Space

- Satellites & Payloads  
Thermal insulation, acoustic and vibration damping, low-outgassing gasketing
- Launch Vehicles  
Vibration isolation, thermal protection, and gasketing for extreme launch conditions

## Material Overview

MATERIAL	KEY BENEFITS
BISCO® Silicone	Flame resistant silicone foams and solids for gasketing, sealing, and acoustic/sound isolation
kSil® Silicone	Solid, sponge, and extruded silicones for seals, gaskets, and high-temp vibration damping
ARLON® Silicone	Thermal pads, self-fusing tapes and composites for insulation and heat shielding
DeWAL® PTFE	PTFE films & tapes for venting, wire/cable wraps, and chemical/thermal resistance
PORON® Polyurethane	Energy-absorbing polyurethane foams for helmet pads, seating, and shock protection

## Specifications

### Fire & Flame Safety:

UL94 V-0, FAR 25.853, ASTM E162/E662, SMP800C, FAR 25.856, ASTM C1166, ASTM D3675, ASTM E1354

### Military & Aerospace:

A-A-59588, MIL-T-83284, MIL-P-22241B, AMS 3301-3304, ASTM D1056 (2D1-2D5), ASTM D6576, SAE AS22759

## Why Engineers Rely on Rogers

Rogers combines unmatched global technical expertise with local converting support to help defense teams solve their toughest challenges.

- Deep materials knowledge backed by decades of military and defense experience
- Global engineering support to guide design, compliance and performance
- Fast-turn prototyping and application expertise through our Preferred Converter network
- Proven performance in mission-critical systems - land, air, sea & space

For more information and to request a sample, please contact our team of experts at [solutions@rogerscorp.com](mailto:solutions@rogerscorp.com)