



BLUESHIFT

AEROZERO® TAPES FOR THERMAL PROTECTION

KEY FEATURES

- Ultra-low thermal conductivity
- Ultra-low thermal diffusivity
- Flexible, lightweight, and thin
- RF transparent
- Peel-and-stick
- 85% air composition
- NASA ASTM E595 certified
- Cyclical thermal protection (-180 °C to 300 °C)

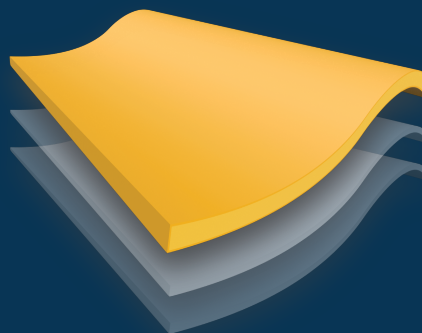


AZ-TAPES ENSURE MISSION RELIABILITY, REDUCE MAINTENANCE RISK, AND EXTEND SPACECRAFT LIFESPAN

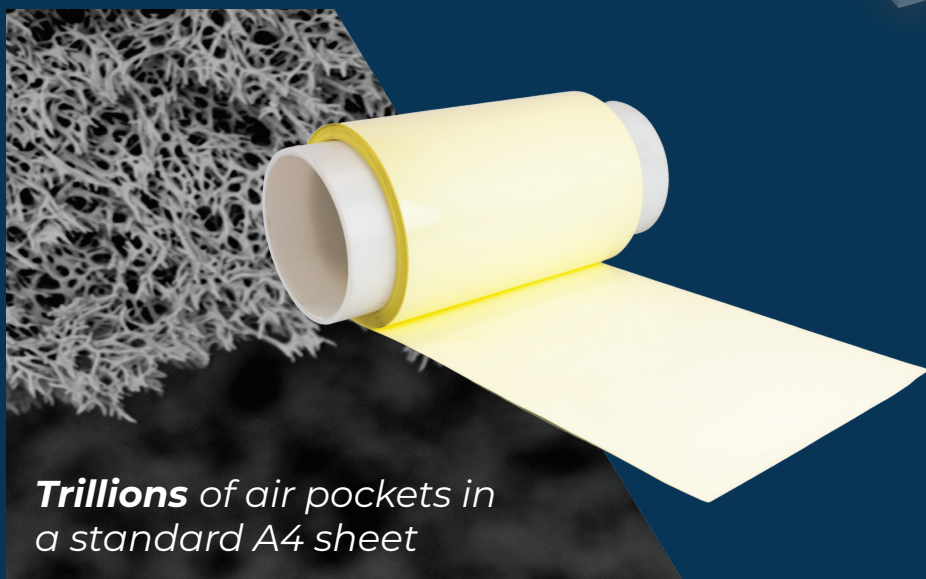
Applications

- Composite structures
- Harness wrapping
- Spacecraft skins
- Electronics protection
- Optics, sensors, and detectors
- Vacuum chamber systems
- Solar cell protection
- High-density batteries

AZ-TPS



- - → AeroZero®
- - → Adhesive
- - → Release Liner



Trillions of air pockets in a standard A4 sheet

+1 (888) 350-7586

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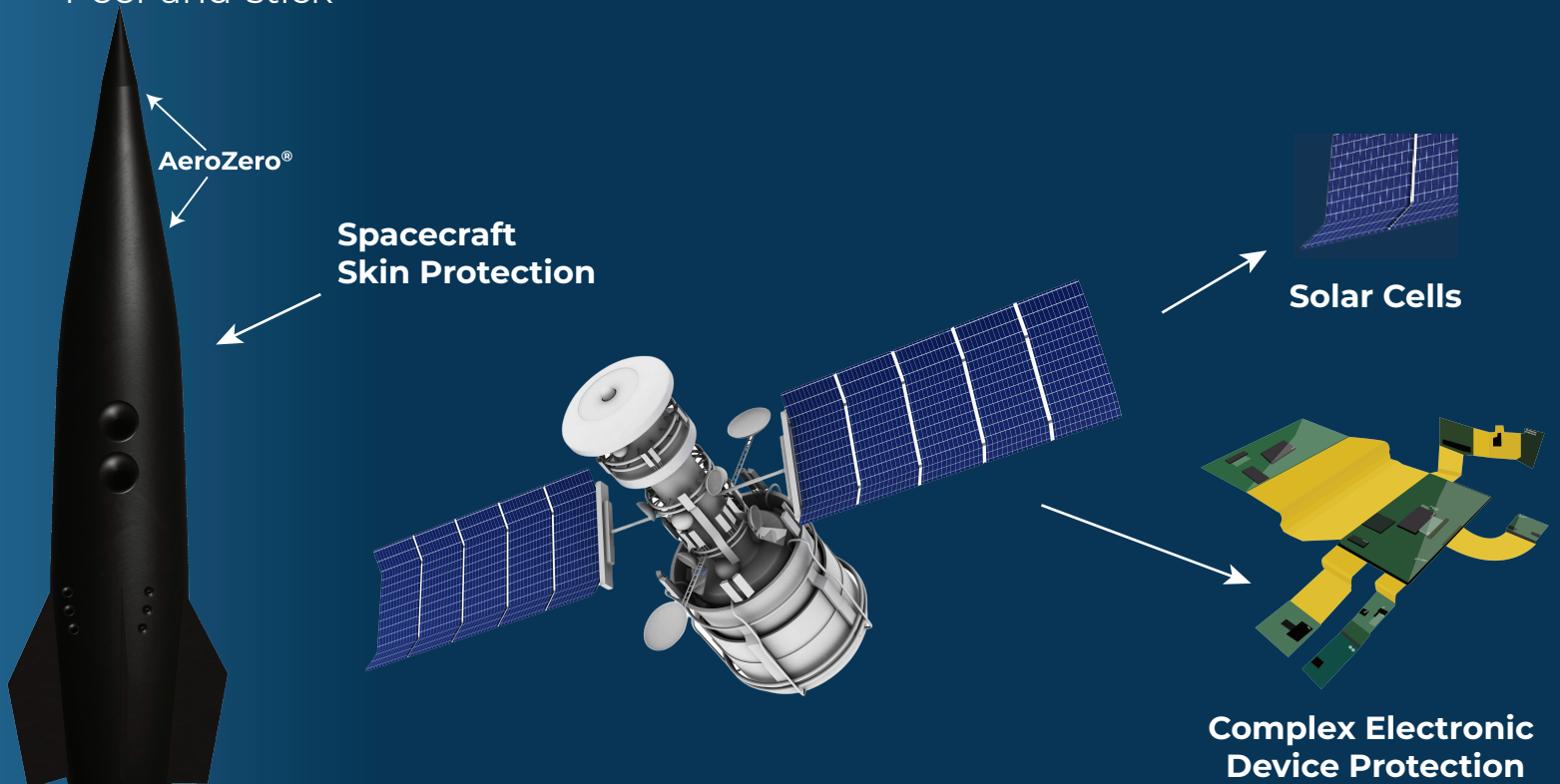
NEW SATELLITE DESIGNS ARE OUTPACING TRADITIONAL MATERIAL SOLUTIONS

Built for the New Space Race

- Proven in **10,000+ ft²** of deployed spacecraft
- Meets NASA's ASTM E595 outgassing standards

Why Engineers Are Using Our Materials:

- Compared with traditional polyimide in a space vacuum, AZ-Tapes offer:
 - **19× lower thermal conductivity:** 0.008 vs 0.152 mW/m·K
 - **6× lower thermal diffusivity:** 0.014 vs 0.085 m²/s
- Electrical Insulation & RF Transparency
- Lightweight and flexible
 - 85% air-core technology, thin profile (<200 μm)
- Peel-and-stick



All products can be configured with a variety of functional layers