



Imagine the Frontiers of Tomorrow

High-Performance Materials for Higher Performance Applications

Spaceships and satellites operate in high-vacuum environments where outgassing can disrupt electronic systems, optical devices, and thermal radiators. Sealants and encapsulants that release high levels of volatiles can degrade the performance of electronics and sensors. Released gases from materials with high levels of volatiles can also condense on camera lenses. Space-grade silicones from Dow address NASA requirements for low thermal vacuum outgassing. They also offer good physical and electrical stability over a wide temperature range. DOWSIL™ space-grade encapsulants are available in flowable and thixotropic versions, and used with modules, relays, power supplies, delay lines, cable connectors, and complete electronics assemblies. Low-outgassing silicones for spaceships and satellites include controlled-volatility sealants with low levels of collected volatile condensable materials (CVCMS), and high elongation for stress relief (according to ASTM E595).

Discover more

We bring more than just an industry-leading portfolio of advanced silicone-based materials. As your dedicated innovation leader, we bring process and application expertise, a network of technical knowledge, a reliable global supply base, and world-class customer service.

To find out how we can support your applications, visit dow.com/electronics.

Seek Together™



Spaceships & satellites
Mission-critical systems



New frontiers
Constant innovation

Addressing the tenets of ASTM E595

Thermal conductives

- DOWSIL™ TC-2035 Adhesive
- DOWSIL™ TC-4060 Thermal Gel
- DOWSIL™ TC-5533 Gap Filler

Adhesive, sealant, foams

- DOWSIL™ 6-1104 Controlled Volatility Sealant
- DOWSIL™ 6-1125 Controlled Volatility Sealant

Coating gels & encapsulants

- DOWSIL™ 93-500 Space Grade Encapsulant
- DOWSIL™ 93-500 Thixotropic Kit

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2000024825-201050



tewipack UH GmbH
Industriestraße 15
D-75382 Althengstett
www.tewipack.de
info@tewipack.de
T +49 (7051) 9297 0
shop.tewipack.de

Form No. 11-4421-01-0525 S2D