

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](https://www.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

Images: dow_58197971748

NOTICE: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries. Dow assumes no obligation or liability for the information in this document. References to "Dow" or the "Company" mean the Dow legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

®™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

© 2025 The Dow Chemical Company. All rights reserved.

2000024825-201050

Form No. 11-4421-01-0525 S2D