For more than 60 years Momentive has been part of the journey into space—providing the silicone in the boots of the first astronaut to walk on the moon, in the rockets that propelled those pioneers into orbit and on every US manned space flight since. Momentive’s innovative silicones help today’s aerospace pioneers reach ever greater heights. From launch to landing, Momentive’s advanced silicone products enable the next generation of space exploration.

Aerospace Products

• Room Temperature Cure Adhesives and Sealants: Legacy RTV materials have supported countless applications for thousands of in-space hours.
• Optical Coupling Agents: InvisiSil* optically clear encapsulants, gels and elastomers enhance display and optical device clarity.
• Potting and Encapsulation Materials: Silicone materials help protect electronics from moisture, contaminants, and thermal, vibrational and mechanical stresses.
• Thermal Protection Systems: Advanced silicone RTVs can withstand extreme temperatures to insulate sensitive electronic components and protect spacecraft and crews.
• Low Outgassing Solutions: RTV silicones are suitable for encapsulating fragile electronics and optical equipment from potential exposure to volatile materials.

CUSTOM SOLUTIONS TO MEET YOUR NEEDS

Momentive works with many pioneering companies to identify solutions for the manufacturing challenges of today.

Satellites
- Thermal control coatings
- Thermal protection materials
- Heat management
- PV mounting
- PV bonding
- Piping
- Access to cooling

Launch Vehicle
- Putting cargo to orbit
- Ablative heat shield
- Thermal protection
- Heating and cooling
- Cooling key locations
- For all applications
- Heat and cold shielding
- Flammability and corrosion
- Regime

Launch structure
- Launch pad overthrust
- Thermal protection for support structures

Crew Capsule
- Outer thermal protection layer
- Thermal protection
- PV and vacuum

Control Panels/Avionics
- Electrical and wiring
- Computer integration
- In-vehicle monitoring
- Corrosion-resistant sealing

Launch vehicle
- Main launch vehicle
- Electronically adhesives
- Engine sealing
- Protective coatings
- General bonding
- Sealing openings
- Coatings and adhesives
- Thermal barriers
- Adhesion and protection for sensors and optics
- Engine sealing

Aerospace
- Time-tested chemistries with over 50 years of flight time and in-space experience
- A comprehensive suite of products
- Teams of experienced Chemists and Application Development Engineers
- World-class application centers equipped with state-of-the-art analytical and application development tools
- Innovative products that meet NASA, ESA, military and US Federal Aviation Administration (FAA) and European Aviation Safety Agency (EASA) regulations

TO LEARN MORE ABOUT HIGH-PERFORMANCE SILICONES, CONTACT US AT 1-800-295-2392 OR COMMERCIAL.SERVICES@MOMENTIVE.COM