✓ avantor<sup>™</sup>



# Fuel- and solvent-resistant silicones for aircraft

## Fluorosilicones resist degradation when exposed to hydrocarbons and temperature extremes

Materials used on an aircraft are often exposed to fuel and common solvents that cause them to degrade, leading to additional maintenance, unplanned downtime and even catastrophic failure. NuSil® fluorosilicones are specifically formulated to resist degradation and mechanical failure caused by hydrocarbons. In addition, they remain flexible at extremely low temperatures and resist breakdown at very high temperatures.

#### SETTING THE STANDARD WITH PROVEN FLUOROSILICONES

- Excellent stability and resistance to degradation: Excellent stability and resistance to form change when compared with other materials, demonstrated by thermogravimetric analysis (TGA) as well as ASTM D2288 testing.
- Broad product portfolio: Choose from multiple formulations of custom or standard fluorosilicones, including adhesives, sealants, coatings, sheeting, molding materials, gels and foams.
- Strong industry commitment: With a flight heritage that spans over 40 years, NuSil is AS9100 and ISO9001 certified as well as compliant with applicable requirements, including National Institute of Standards and Technology (NIST) 800-171 and Defense Federal Acquisition Regulation Supplement (DFARS) clause 282.204-7012.





#### FLUOROSILICONE SELECTION: UNDERSTANDING THE OPTIONS

Fluorosilicones are available in many forms and cure chemistries. This versatility makes them ideal for diverse applications, including O-rings, gaskets, seals, molded parts, coatings, gap fillers, adhesives, sealants, potting and encapsulation. NuSil silicones are manufactured in the U.S. and include a line of standard products as well as the ability to customize to specific requirements.

#### **CUSTOMIZATION OPTIONS INCLUDE:**

- Addition of functional fillers
- Adjustable cure times
- Processing requirements
- Color matching to AMS-STD-595 or PMS



### Contact NuSil<sup>®</sup> to get started

Choosing a proven fluorosilicone that resists degradation is critical for success. Our team is ready with expert insights, technical expertise and support to design the right solution to fully meet your needs.

#### To learn more, visit

avantorsciences.com/nusil/fluorosilicones or contact NuSil experts today at silicone@avantorsciencesgcc.com or +1 (805) 684-8780.

#### www.avantorsciences.com/nusil

It is the sole responsibility of each purchaser to ensure that any use of these materials is safe and complies with all applicable laws and regulations. It is the user's responsibility to adequately test and determine the safety and suitability for their applications, and NuSil Technology LLC makes no warranty concerning fitness for any use or purpose.

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