



# High-purity silicone solutions

Setting science  
in motion to create  
a better world



## WE ARE AVANTOR®

From discovery to delivery, Avantor is a global manufacturer and distributor of high-quality products, services and solutions to the life sciences and advanced technologies industries. We focus on the things that matter to you most, providing exceptional collaboration, customization and convenience to help ensure your success.

Strengthened by our channel brand, VWR, Avantor operates in over 30 countries worldwide with a diverse portfolio that includes more than four million products. We seek to enable customer success in a variety of industries, including:

- Biotechnology
- Educational
- Pharmaceutical
- Industrial
- Medical device
- Government
- Diagnostics
- Aerospace and defense
- Healthcare
- Electronics

## NUSIL™

### THE MOST EXTREME ENVIRONMENTS. THE PUREST SOLUTIONS.

Founded in 1979, Avantor's NuSil brand has set the global standard in medical- and space-grade silicones, advancing purity and quality while redefining expectations in customer care. From the beginning, our mission has been to design silicone formulations to meet our customers' requirements and provide the support needed in these highly regulated industries.

We have unsurpassed insight into the unique performance characteristics high-purity silicone formulations offer. As a result of decades of successful product development and close customer collaboration, we have expanded our offering to address all facets of biomaterials and advanced technologies, with both standard and custom solutions.



# Biomaterials

The conditions within the human body require materials engineered and tested to provide the highest levels of purity and long-term stability. With an unwavering commitment spanning over 40 years, the NuSil brand has been continuously supplying that level of quality. Our market-leading, medical-grade silicones for use in the body, on the body or in contact with the body are trusted for a wide range of medical devices that help save and improve the quality of life.

## REGULATORY EXPERTISE

We have assisted medical device companies in obtaining regulatory clearance for their products for decades. Our commitment extends well beyond the sale of our silicones. We provide the technical and regulatory expertise needed for approval and are willing to communicate directly with international regulatory bodies on behalf of our customers. We maintain over 700 Master Files (MAFs) with the U.S. Food & Drug Administration (FDA) in support of our medical-grade silicones.



## Medical implants

Leading medical device manufacturers and innovative startups worldwide depend on the quality, purity and reliability of our implantable silicones to help solve unique challenges for crucial medical applications.



## General healthcare

Our deep experience in silicones for medical implants enables us to offer custom and standard materials for use in devices and components for medical diagnostics, therapy and care.



## Drug delivery

We contribute to changing the world of drug delivery by harnessing the power of silicone. We help create revolutionary combination devices with sustained release of critical medications to patients.



## Skin care

Our CareSil™ brand specializes in high-purity silicones using novel patented technologies for skin care, sun care and color cosmetics applications.

Our leadership in high-purity,  
medical-grade silicone is  
the result of our unwavering  
commitment to the medical  
device industry



# Advanced Technologies

Technologies on the cutting edge demand materials with the highest levels of stability and integrity. From reusable rockets that send spacecraft into orbit, to the electronics we use to connect and communicate, we supply silicones that meet the high standards these advanced systems require, even in the harshest conditions.

The NuSil brand is a market leader in space-grade silicones, backed by a long heritage of silicone expertise. We have an established line of standard off-the-shelf products as well as extensive customization capabilities to satisfy your specific requirements. Our global regulatory expertise and relationships with international agencies, including U.S. Department of Defense, NASA and ESA, are seamlessly integrated to ensure that you are in compliance.



## Space

Our expertise in ultra-low outgassing silicones and customization capabilities delivers solutions to an industry where purity is essential.



## Defense and commercial aviation

Aircraft and defense applications call for the unique benefits our silicones provide in extreme environments.



## Optoelectronics and electronics

NuSil silicones are ideal materials for digital displays, addressing the ever-growing size, the elevated heat concerns and the clear need for purity.

From outer space to the palm of your hand, we supply the high-purity silicone essential for today's most advanced technologies



# Commitment to customer care

## CUSTOMIZATION

We know that standard solutions don't always fit. That's why we create custom products based on our customers' unique applications. After decades of serving the most demanding industries, we've honed our processes and proprietary equipment to take customization to a mass scale, all backed by comprehensive regulatory support.

Rapid, highly scalable customization is fundamental to our workflow. We can create unique products in small batches or commercial quantities, and customize product properties, processing parameters and packaging.

## PURITY

We continue to invest in manufacturing resources that enable us to produce silicones with the highest levels of purity in the industry. We've incorporated controls to remove impurities at every step in the manufacturing process. We carefully select our raw materials and custom make equipment that produces the most refined intermediates and the purest finished products. We complete this with our Proprietary Purification Technology, purpose-built to produce silicones with the lowest volatility levels in the industry.

## DISCOVERY

Customer engages NuSil™ early in R&D process



## CUSTOMIZATION

NuSil™ customizes silicone for customer requirements



## AGILITY

NuSil™ quickly adapts to customer needs



## SUPPORT

Technical and regulatory support provided by NuSil™ brand experts



## QUALITY

Our quality system is built on a foundation of unsurpassed medical implant and aerospace standards—a foundation that continues to guide our quality standards for all of the industries we serve.

We go beyond what you expect by meeting the scrutiny of some of the strictest regulatory agencies in the world. Industry leaders depend on our robust manufacturing, testing and quality assurance capabilities to provide unequalled quality and consistency every time.

## CONVENIENCE AND CARE

Through decades, we've refined our support systems to meet the high-touch needs of our customers. This premium level of customer support is our standard across all industries. Our service model delivers support throughout the entire commercialization process, from product design through launch and approval.



NuSil sets the global standards in medical- and space-grade silicones, advancing purity and quality while redefining excellence in customer care



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