

BISCO[®] MS Silicones

Rogers Corporation is the material solutions partner of choice when quality, innovation, and collaborative support are critical to design optimization and product functionality.

From bio-pharmaceutical gasketing and sealing to acoustic absorption and vibration management, the BISCO[®] MS Silicone series offers high performance materials that deliver mission-critical reliability in a variety of medical and life science applications. Our materials have helped to solve:

- Gasket Maintenance/Failure
- Acoustic and Vibration Concerns
- Testing and Certification Requirements
- Thermal Cycle Resistance
- Ozone and Chemical Resistance
- Cost Reduction

Qualifications and Capabilities

Select BISCO MS Silicones are compliant with the requirements of the following quality management system and testing methods:

Quality Management System

Materials produced in accordance with the requirements of ISO 9001:2015

Testing Methods (in process)

- ISO 10993
- 21CFR177.2600
- U.S. Pharmacopeia Class VI



A Suite of High-Performance Silicone Foams for Medical and Life Science Applications

The BISCO MS Silicone product portfolio consists of the following buns, foams, and solids:

BISCO MS Series Buns

Block form of open-cell silicone foams with the key properties of low density, softness, and excellent acoustic absorption and vibration isolation properties.

BISCO MS Series Cellular Foams

Open-cell silicone foams with the key properties of durability, conformability, and enhanced sealing for excellent long-term protection. Whether you're looking for low closure force with high conformability, or high closure force with excellent durability, the MS silicone foam suite has a variety of firmness grades and thicknesses to best suit your needs.

BISCO MS Series Solids

Solid silicones that meet USP Class VI and 21CFR177.2600 (testing in process) with the key properties of excellent long term sealing performance, biocompatibility and low levels of migratables.

BISCO® MS Silicone Advantages

Beyond the typical silicone advantages, the BISCO MS series addresses the following major medical and life science material challenges:



LONG TERM PERFORMANCE

Superior compression set, uniform compression force deflection (CFD), and low stress relaxation ensure consistent performance over long periods of time



RESISTANCE TO EXTREME CONDITIONS

Highly resistant to UV, ozone, and most popular hospital sanitizers. BISCO MS silicones maintain high performance in a wide range of temperatures (-55 to 200 °C), including cycles of hot and cold



PURITY

BISCO MS silicones are platinum-cured for safe and easy integration into your application. The materials are compliant with the requirements of 21CFR177.2600 (testing in process)



BIOCOMPATIBILITY

Silicones are innately inert materials. Also, BISCO MS silicones are compliant with the requirements of USP Class VI or ISO 10993 (testing in process)



HIGH SOUND ABSORBING PERFORMANCE

Manage sound/acoustic absorption requirements for critical medical device applications



GREAT VIBRATION ISOLATION PERFORMANCE

Low natural frequency and silicone viscoelastic properties ensure great vibration isolation performance



SUPERIOR SEALING

BISCO MS foams and solids can be used to effectively seal out dust and water as well as withstand repeated opening and closing

Testing

Testing is important for safety and performance. Rogers has in-house R & D laboratories and analytical capabilities around the world that enable a wide range of tests. We also have an extensive network of external labs to test for biocompatibility, environmental conditions, ozone resistance, vibration, and more. To learn more about our testing capabilities, speak with your Rogers Sales Engineer.

Get Started

Shaping tomorrow's medical and life science innovations starts with having the right materials today. Scan the QR code to learn more about Rogers products and capabilities.

