



Biocompatible Lubricants for Catheter Motors

Application: Catheter Motor

Location: USA

Challenge

Lubricants for catheter mechanisms must be biocompatible in case of accidental contact with the body cavity. A medical design company specializing in Thrombectomy devices approached us in search of a lubricant for their aspiration catheter motor. They needed to replace a lubricant for the motor's O-ring that did not meet their biocompatibility requirements. The motor featured a mix of rotating and sliding components, was exposed to high vacuum, and featured a plastic-on-metal design.

- Can we provide a biocompatible, plastic-compatible lubricant that can withstand vacuum and high temperatures?

Solution

NYEMED® 7477 & NYEMED® 7560

- Biocompatible per ISO 10993-5, 10993-10, and 10993-11
- Resists oxidation & moisture
- Compatible with plastics & elastomers
- Withstand vacuum conditions

Results

We sent the customer several samples from our NYEMED® line of biocompatible gels and fluids. The customer then conducted material compatibility and vacuum testing as well as testing to ensure the gel could withstand 10,000 rpm. Both NYEMED® 7477 and NYEMED® 7560 passed all of the customer's internal testing and was approved for use.

Advantages

Biocompatible

Resists oxidation & moisture

Compatible with plastics & elastomers