



Reduce Torque in Lead Screws

Application: Precision Motion Control Systems

Location: USA

Challenge

A medical component supplier came to us in search of a grease that would lubricate a lead screw found in several of their precision motion control systems for the Medical industry. This customer supplies components for a wide range of medical applications including ultrasound, neurostimulation, cardiac rhythm management, sensors, and more. When the proper lubricant is selected for lead screws, it can minimize friction, reduce torque, increase the system's efficiency, and extend performance life.

- Can the lubricant reduce torque to extend the life cycle of the customer's components?

Solution

UNIFLOR™ 8981

A PTFE thickened, heavy viscosity, completely fluorinated grease.

- Excellent high and low temperature performance
- Extends performance life
- Excellent thermo-oxidative stability
- Low vapor characteristics

Results

The medical component supplier compared UNIFLOR™ 8981 to competitor lubricants through a series of tests that evaluated life cycle, load carrying capacity, torque measurements, and current draw material compatibility. UNIFLOR™ 8981 outperformed all other lubricants and was chosen to lubricate the lead screws in their precision motor control systems.

Advantages

Wide temperature performance

Low vapor pressure

Extends component life