

The Right Mix

nexeo[®]
plastics

Better together: Blending our expertise for you

Stronger Solutions - Metal to Plastic Conversion

Unlocking Cost Savings and Performance Gains in Medical Device Innovation with Americhem Healthcare

Geographic location: North America

CUSTOMER CHALLENGE:

A medical device OEM needed a cost-effective, high-performance alternative to a machined metal component. The solution required enhanced corrosion resistance, strength, wear resistance, and lubricity while maintaining biocompatibility and supporting sustainability goals.

ACTION TAKEN:

- **Cost Reduction:** Provided expert material selection and assisted in Design for Manufacturability (DFM) for an all-plastic design, ensuring the component met all critical quality requirements.
- **Corrosion Resistance:** Leveraged engineered materials inherently resistant to corrosion, reducing maintenance and extending product lifespan.
- **Performance Enhancement:** Utilized reinforced fiber technology to enhance strength and reliability while maintaining moldability for complex geometries. Integrated Ecolube™ non-PFAS-based lubricant to reduce operational friction and eliminate the need for external lubricants.
- **Biocompatibility:** Ensured compliance with industry healthcare standards through Americhem Healthcare's ISO 13485-certified clean manufacturing process, providing peace of mind for patient safety.
- **Sustainability:** Supported the customer's sustainability goals by reducing carbon footprint through lightweight plastics and promoting recyclability.



RESULTS

By implementing InStruc® PARAGF50M2MD, a high-glass PARA material with Ecolube™ non-PFAS lubricant, the customer achieved significant cost savings, improved durability, and enhanced product reliability. The sustainable, biocompatible solution met all regulatory requirements while reducing environmental impact. Americhem Healthcare's expertise enabled a seamless transition to a high-performance plastic solution, driving innovation in medical device manufacturing.

Featured Product: InStruc® PARAGF50M2MD

Discover how we can help you overcome your material, process, and application challenges.



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