Proven Precision Dry Lubrication

DICRONITE®

Medical Plastic Molding

Functional Properties

- Reduce friction with ultralow coefficient of friction (μ= 0.030), providing efficient mold release
- Precision film (0.5 microns maximum) does not change mold dimensions or tolerances and enables pre-design specification or correcting after-design issues (e.g. flow, mold release, wear, etc)
- High temperature stability (up to +538°C) ensures stability in molding process
- Biocompatible
- Compatible with all metallic substrates and suitable as co-deposit with other coatings (e.g. Ni, CrN, etc)

Medical Specific Testing

- ISO-10993-5 for Biocompatibility
- ISO-13402 and ASTM F-1089 for Sterilization of Surgical Hand Instruments
- Gamma Ray stability for Sterilization
- ASTM F-945 for Titanium Stress Corrosion
- ASTM E-595 for Vacuum Stability/Outgassing
- FDA Masterfile to support FDA Device Approval
- Additional testing upon request

Example Applications

- Release agent for syringe molding enabling shallower draft, faster cycle time and reduced scrap
- Guide, bushing and linear motion component lubrication for cleanroom level medical plastic molding equipment eliminating grease and providing longer life and reduced maintenance
- Ejector pin lubrication to reduce breakage and wear, enabling higher production rates at lower cost
- Mold flow enhancement to reduce filling pressure and provide for precision device molding with small and/or complex geometries
- Sliding mold insert lubrication enabling reduced wear and maintenance costs

Dicronite is available throughout the world. For more information visit us at: www.dicronite.com or contact Lubrication Sciences International at 800.874.4319 • 408.834.7442 • inquiries@dicronite .com

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