



Proven Precision Dry Lubrication

DICRONITE®



Medical Devices

Functional Properties

- Reduce wear and friction with ultralow coefficient of friction ($\mu = 0.030$)
- Precision film (0.5 microns maximum) enables pre-design specification or correcting after-design issues (e.g. stick-slip, galling, etc)
- Wide functional temperature range (-188°C to +538°C) permits harsh environments
- Radiation and x-ray stable, withstands all common sterilization procedures
- Biocompatible

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

- Dental air-drill gear and bearing lubrication providing longer life, lower friction and reduced maintenance
- Surgical tool hinge/pivot lubrication enabling higher precision tolerances, reduced wear and greater reliability
- Anti-galling treatment for titanium and stainless bone fixturing hardware
- Bearing, magnetic motion component and linear guide lubrication in vacuum environments inside medical imaging equipment enabling longer life and reduced cost
- Guide wires, endosurgical tool guides and cannula to reduce insertion force and minimize galling
- Ophthalmological biopsy sampling device with sliding inside diameter sampling tube against outside diameter tube to prevent galling and reduce actuation force



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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