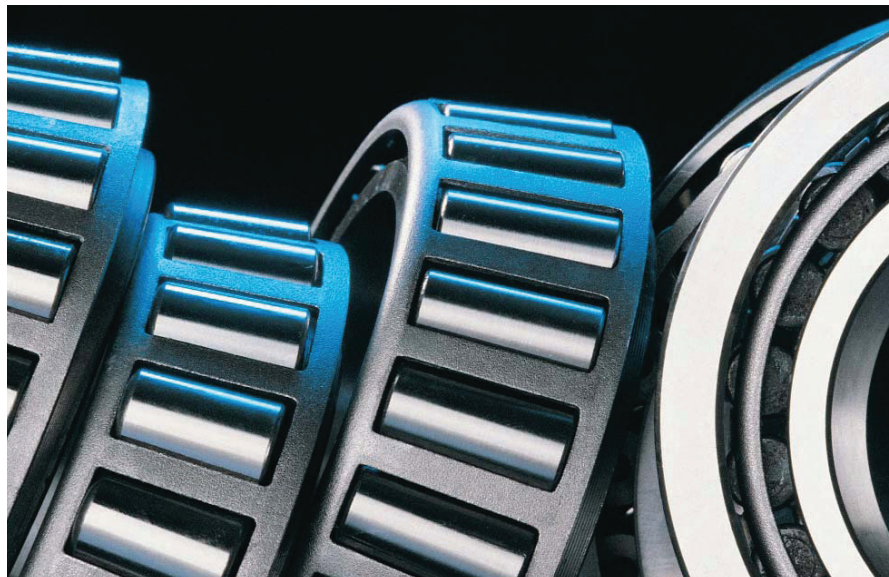


SOLID FILM LUBRICANTS

Coatings for Enhanced Protection Over Conventional Wet Lubricants



Solid film lubricants exceed the limitations of traditional greases and oils as well as other coating and plating methods.

E/M Coating Services is a leader in the application of **solid film lubricants** – a family of coatings with inherent lubricating properties that firmly bond to the surface of a substrate. **Solid film lubricants** prevent surface to surface contact, thus reducing friction and wear between mating surfaces. The lubricant actually becomes a protective layer between the two mating surfaces. Customers benefit from the versatility of these coatings that are effective in:

- Extending wear life
- Lowering coefficient of friction
- Preventing galling, fretting and seizing
- Withstanding extreme temperatures
- Providing corrosion resistance
- Providing high performance lubrication

We apply solid film lubricants made from a variety of lubricating materials including MoS₂, graphite, PTFE, FEP, PFA, ECTFE and PVDF.

Solid Film Lubricant Advantages Over:

Greases and Oils

- Withstands extreme temperature range
- Bonds to the substrate surface
- Contaminant free
- Requires no maintenance
- Provides increased chemical resistance

Zinc Plating

- Provides greater corrosion protection (300-1500 NSS)
- Provides barrier protection
- No Hydrogen embrittlement
- Allows easy assembly and disassembly
- Enables close tolerance for parts
- Offers color identification

Typical Applications

Component	Solution	Coating System
Passenger Seat Assemblies: Guides, Springs, Fasteners	Prevents corrosion; eliminates contamination issues with standard liquid lubricants	E/M 6275 E/M 6219
Ball Studs and Cases	Provides lubricity and corrosion resistance	E/M 6113 E/M 6275
Bearing Assemblies for Jet Engines	Prevents galling and wear	Microseal® 300-1
Latches/Splines/Rods	Replacement for cadmium plating; provides corrosion and wear resistance	E/M 6287
Printer Components	Eliminates contamination issues with standard liquid lubricants	E/M 6219
Semiconductor Manufacturing Equipment	Improves quality; provides corrosion and wear resistance; lower friction	E/M 6230
Magnification Pin for X-Ray Arm	Provides smooth rotation; reduces noise and wear	E/M 6219
Components for Autosuture (Stapler) Unit	Prevents binding and provides wear resistance	E/M 6274
Valve Bodies, Impellers, Fittings, Diaphragms, etc.	Provides chemical/corrosion resistance and wear protection	Everlube® H-610 Everlube K-710
Actuator Stems & Shafts	Prevents corrosion; eliminates contamination issues with standard liquid lubricants	E/M 6226 Microseal EN-300 Microseal 100-1 E/M 6238
Eyelet/Rivet	Provides uniformity and release	E/M 6219
Conveyor Belt Fasteners	Provides corrosion resistance and lubricity	E/M 6219

FACILITY LOCATIONS:

UNITED STATES:
E/M Chicago
E/M Detroit
MIC Fremont, IN
E/M Hartford
E/M Minneapolis
E/M Los Angeles (No. Hollywood)
(Chatsworth)

630-620-6808
586-566-6800
260-495-4445
860-224-9148
651-780-3202
818-983-1952
818-407-6280

MIC Philadelphia
PCS Katy, TX

CANADA:
MIC Ingersoll

CHINA:
MIC Suzhou

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MIC Unna

UNITED KINGDOM:
MIC Evesham

IRELAND:
MIC Evesham

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