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E/M Coating Services applies **Ever-Slik** processes, which are impingement coatings that offer superior release properties for molding applications. Available processes include the MS-300 (tungsten disulfide) process and the MS EN-300 (nickel/tungsten disulfide) process, both of which we can apply to a variety of metals.

**Ever-Slik** processes are proven, advanced mold release agents for a wide variety of thermoplastic applications – from nylon, acrylic, polyethylene and polystyrene to polycarbonate, acrylonitrile-butadiene-styrene (ABS) and acetal. These processes are suitable for molding applications where higher levels of wear, erosion and release are severe problems.

**Ever-Slik** processes are especially effective for production jobs with long cycles or that require extended downtime for mold spray lubrication. Ever-Slik users have reported production output increases of up to 20%. In addition, the processes enable improved cavity fill of molds.

These processes have high bond strength to substrates, virtually eliminating transfer to the molded part. Once applied, they become an integral part of that metal. Also, there is no need for a rinse stage to remove contaminants prior to plating, painting, hot stamping or silk screening.

### Key benefits and characteristics of Ever-Slik include:

#### Materials

Each Ever-Slik process utilizes tungsten disulfide as its lubricating solid. While the MS-300 process primarily uses tungsten disulfide, MS EN-300 is a duplex system of nickel and tungsten disulfide that provides superior wear and erosion resistance. During application, E/M Coating Services impinges these processes into various substrates, forming a superior release agent.

#### Chemical Stability

Ever-Slik processes are virtually inert and are stable and insoluble in almost all environments. They are non-toxic, non-corrosive and can be impinged into all materials, including metals, plastics, glass filled plastics, rubber and many more.

#### Chemical Resistance

Ever-Slik processes are compatible with fluids such as distilled water, MIL-H-5606 hydraulic fluid, Silicone fluid DC 200, Rockwell Nordstrom 147 grease, UDMH compatible grease and IRFNA compatible grease.

#### Dimension

Ever-Slik processes are self-limiting in thickness. Maximum surface build-up for the MS-300 process is approximately .0001 inch (0.0025 mm) and for the MS EN-300 process is .001 inch (0.0254 mm). These processes provide a subsurface penetration, which is dependent on the porosity of the substrate material.

#### Friction

Ever-Slik processes provide outstanding release on a wide range of materials including metals, plastics, elastomeric substrates and others. Initial coefficients of friction start at .10 and decrease steadily through break-in at .04 when applied to surfaces of 15 rms or better (dependent on load).

#### Load

Load carrying capabilities of the Ever-Slik processes are determined by the load capabilities of the substrate.

#### Thermal Stability

Ever-Slik processes have a temperature range in air from -325°F (-198°C) to 850°F (454°C). Both of these processes begin slow oxidation at temperatures of 850°F (454°C) in air.

### FACILITY LOCATIONS:

#### UNITED STATES:

E/M Chicago 630-620-6808  
E/M Detroit 586-566-6800  
MIC Fremont, IN 260-495-4445  
E/M Hartford 860-224-9148  
E/M Minneapolis 651-780-3202  
E/M Los Angeles (No. Hollywood) 818-983-1952  
(Chatsworth) 818-407-6280

MIC Philadelphia  
PCS Katy, TX

215-638-0888  
281-391-7765

**CANADA:**  
MIC Ingersoll

519-485-5500

**CHINA:**  
MIC Suzhou

86-158-6241-7890

**GERMANY:**  
MIC Unna

49-2303-91880

**UNITED KINGDOM:**  
MIC Evesham

44-1386-421444

**IRELAND:**  
MIC Evesham

353-91-780-300

