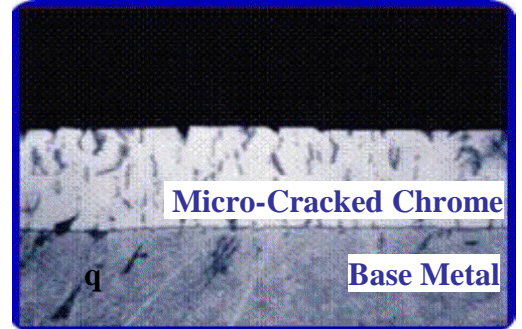




**TM 119** is a dense, hard, wear-resistant metallic coating used in applications that require the optimum release & sliding wear.

## USER BENEFITS

**LOW COEFFICIENT OF FRICTION**  
**HARD DEPOSIT**  
**EXCELLENT WEAR**  
**NON-STICK**  
**MOLD RELEASE**



The Micro-Cracks in the Chromium are vacuum-filled with polymers.

## SUMMARY

TM 119 is a process in which a high chromium alloy, impregnated with special Polymers (PTFE-like material's), is applied to the base metal. The deposit provides a very hard, yet lubricious surface of chromium & PTFE-like materials.

TM 119 is very dense, which results in smaller cracks, inclusions and voids. This provides more resistance to fragmentation, galling & wear.

The TM 119 process consists of a special hard chrome deposit, normally .0002 to .0005 thick. It may be applied up to .002 thick for severe wear applications. Controlled application of the deposit produces thousands of microscopic openings, which penetrate the entire thickness of the deposit. The Polymers are applied by a capillary thermal-mechanical method, which literally packs these openings with PTFE- like material & remains throughout the life of the deposit.

TM 119, as deposited, has a coating hardness of 67 to 72 Rockwell C. It exhibits a hard, slick surface with good corrosion resistance. Typical applications include dies, valves, pumps, metal forming tools and molds requiring extra release.

The accuracy & quality of the deposit is maintained through our strict quality control techniques. This helps to assure the best possible coating for ones needs.

TM 119 can be varied to meet your specifications & requirements. For a specialized application, contact our service department for assistance.

Caution: While the deposit remains viable, the Polymer's particles are damaged at temperatures over 600° F.

