

Large Mold with UltraKoat

**ULTRAKOAT** The preferred coating of many molders. UltraKoat is a state of the art coating providing a very low coefficient of friction in wear applications without reduction of hardness experienced with other coatings. ULTRAKOAT can be heat-treated to a hardness approaching 900 VHN, producing an extremely slick; abrasion and wear resistant surface. This coating contains sub-micron particles of diamond-like material that provide it with superior abrasion resistance. UltraKoat has a lower coefficient of friction than coatings containing PTFE. Unlike PTFE, which will start to decompose at 600 degrees F, UltraKoat will maintain its integrity up to the melting point of 1900 degrees F.

## USER BENEFITS

**Excellent for blow molding applications**  
**Uniform Coating**  
**Extreme Abrasion Resistance**

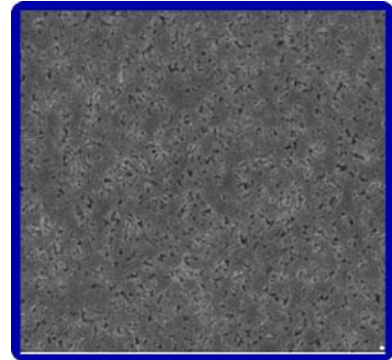
**Pleasing Light Gray Color**  
**Can be Applied to any Metal**  
**Excellent Release Properties**

### PROPERTIES

Hardness (VHN)  
As Plated  
HT @ 590 F, 3-Hours  
Coefficient of Friction (static)  
Melting Range  
Density (g/cc)  
Magnetic Properties  
Wear Resistance  
(Taber Wear Test)  
Internal Stress  
Corrosion Resistance

### TYPICAL VALUE

600-700 VHN  
850-970 VHN  
0.1 static  
1900-2200 F/1050-1200 C  
8.4 g/cc  
Slightly Magnetic  
  
Wt/loss/mg 1000 cycles: 1-2  
Kpsi: -2.6 (compressive)  
100 Hours (Can be improved considerably with an undercoat of TM 103)



Cross-section of coating. Please note the even dispersion of Diamond-like particles that improve release & wear.

Unlike PTFE co-deposits, UltraKoat can perform in temperature from 1900 degrees F to its melting point



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