

MAGNAMAX - HT™

Low Sliding Friction At Extreme Temperatures Up to 816°C



The demand for increased production through reduced processing times, along with higher temperature applications, created a demand for a surface that can reduce sliding friction at extreme temperatures. MAGNAMAX – HT is a high temperature, solid dry lubricant coating that can withstand temperatures up to 816°C while providing a low coefficient of friction. When combined with S E C Plating synergistic processes, MAGNAMAX – HT not only provides the benefits mentioned above, but also takes on characteristics such as extreme wear resistance, thermal oxidation resistance, thermal barrier resistance and many many more.

MAGNAMAX – HT PROPERTIES

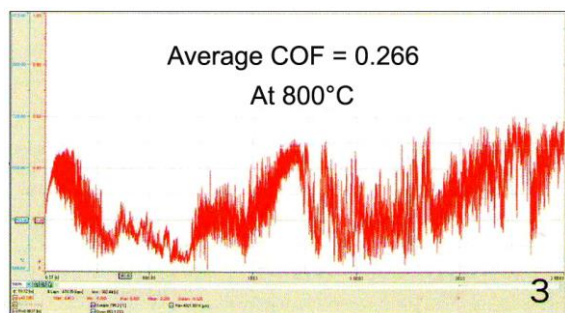
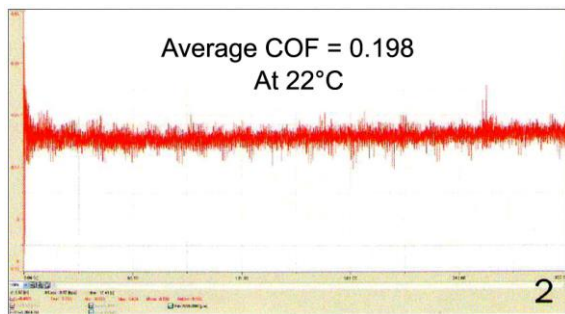
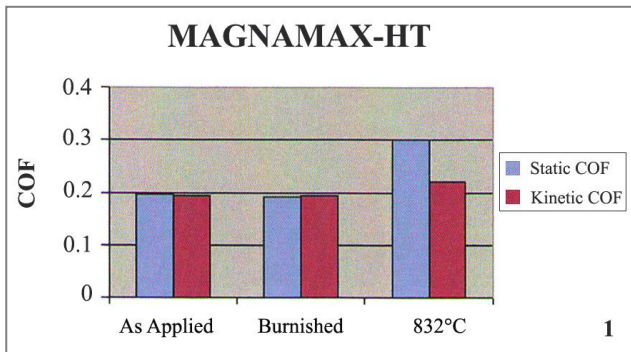
- Low density (approx 2.2g/cm³)
- High thermal cycling resistance
- High thermal conductivity (0.08 cal/ cm.sec.K)
- Resistance to most acids and melts
- Electrical insulation (Dielectric Constant 4 (MHz))
- Very high oxidation resistance
- Low coefficient of friction

MAGNAMAX – HT TESTING

Tribometer testing for Coefficient of Friction, using both Pin on Disk (ASTM G-99-05) and Slip and Friction Testers (ASTM D 1894-01).

The Slip and Friction tests were performed for static and kinetic friction to samples that were processed, processed and burnished, and processed, heated to 816°C for 15 minutes and allowed to cool. Results are illustrated in diagram 1.

Pin on Disk tests were run on a sample at 22°C (diagram 2) and 800°C (diagram 3).



MAGNAMAX-HT is available from:-



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General Magnaplate

MAGNAMAX-HT is a registered trademark
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