

## COEFFICIENT OF FRICTION

C-110 Cerakote™ MicroSlick is an ambient cure coating specifically designed to increase lubricity in areas of low tolerance. C-110 is commonly used on engine components, such as piston skirts, valve stems and timing chains, as well as a wide range of objects including saw blades, bolt threads, gears, and ball-bearings. After 2000 wear cycles the average value of "µ" increased to 0.417. This indicates that as the surface of the C-110 Microslick began to wear, the coating was broken in before settling into an average value for the coefficient of friction. For high use and extended wear applications, "µ" should be taken as 0.417. For single or lower use applications the value of "µ" is lower. This study indicates that Cerakote™ C-110 can be successfully used as a dry-film lubricant.

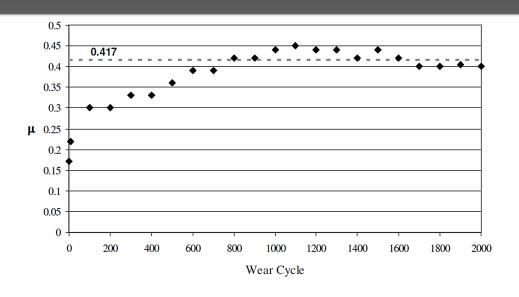


Figure 2. Variation in the coefficient of friction as a function of wear for Cerakote<sup>TM</sup> C-110 MicroSlick.

**Table 2**. Coefficient of kinetic friction ( $\mu$ ), with and without wear, for Cerakote<sup>TM</sup> C-110 MicroSlick

Sample	Initial coefficient of friction (μ)	Coefficient of friction with wear (µ)
C-110 – Stainless Steel	0.171	0.417
Steel-Steel	0.57-0.80*	-
Aluminum-Aluminum	0.8-1.2*	-

<sup>\*</sup>Average coefficient of friction without wear.