

AnoLube III – 15k

Providing aluminum alloys with durability, lubricity, and 15,000+ hours salt spray resistance

Anoplate's **AnoLube III – 15k** represents a breakthrough in hard anodic protective coating for aluminum alloys used in extreme environments. Using sequentially applied inorganic, bi-metallic sealant, followed by a proprietary, chemically bonded fluoropolymer, the aluminum surface is imparted with enhanced surface properties.

AnoLube III – 15k utilizes proprietary PTFE lubricant whose hydrophobicity renders the coated part easily cleanable. Under this proprietary process, the specially-formulate fluoropolymer penetrates the surface resulting in a highly-corrosion resistant ceramic which exhibits dielectric properties superior to that of conventional hardcoat anodize. Additionally, the coating retains its non-stick, low coefficient of friction properties afforded it by PTFE.



SPECIFICATIONS

- ❖ MIL-A-8625 Type III
- ❖ MIL-A-63576 Class 1
- ❖ AMS-2468
- ❖ Customer defined specs

KEY ADVANTAGES

- ❖ Low coefficient of friction, non-stick PTFE surface
- ❖ Low wettability = easy clean ability
- ❖ Abrasion-resistant, "file hard" ceramic
- ❖ Chemically-inert fluoropolymer impregnation
- ❖ Corrosion-resistant hard anodize
- ❖ High dielectric withstanding voltage
- ❖ Resulting hardness and corrosion resistance is alloy dependent

PHYSICAL PROPERTIES

Hardness	~72 HRC
Corrosion Resistance	>15,000 hours*
Visual	Matte or shiny, olive drab
Wettability	Poor
Clean-ability	Excellent
Abrasion Resistance	< 10 mg per 10k cycles**
Dielectric Strength	>1kV @ 50µm thickness

*When tested per ASTM B117 on 6061 alloy

**Fed Test Method 6192 of MIL-STD-141 (Taber test)