



AnoLube III-15k

Providing aluminum alloys with a ceramic-hard, lubricous, protective coating for 15,000+ hours salt spray resistance

AnoLube III-15k represents breakthrough technology in hard anodic protective coatings for aluminum alloys used in extreme environments such as offshore oil platforms and on-board ocean-going vessels. Using sequentially applied inorganic, bimetallic sealant followed by a proprietary, chemically bonded fluoropolymer sealer, the aluminum surface is imparted with enhanced surface properties such as:

□ **HARDNESS**

AnoLube III-15k has a comparable hardness to that of hard chrome resulting in an equivalent hardness of better than 72 Rockwell C. The term *file hard* readily applies to AnoLube III-15k.

□ **CORROSION RESISTANCE**

Through Anoplate's proprietary duplex sealant process enhanced by thermal infusion of the polymer into the anodic coating, the coating provides better than 40 times the minimum corrosion resistance specified by MIL-A-8625 and similar military and aerospace standards.

□ **FRICTION REDUCTION**

The infiltration of the PTFE polymer results in a smooth, slippery surface with permanent lubricity. Such sealing has provided years of smooth, non-stick operation in such applications as coating rollers for the plastics industry and paper guides for printing and copier components.

□ **ABRASION RESISTANCE**

Typical results for AnoLube III-15k coated test panels resulted in Taber Abrasion weight loss of well under 10 milligrams. Tests were conducted per Federal Test Method 6192 of MIL-STD-141. Again, this is many times better than the minimum specified for typical hard, anodic coatings widely used in stringent military, space and aerospace applications.

□ **DIELECTRIC STRENGTH**

AnoLube III-15k provides aluminum surfaces with a uniform, consistent layer of aluminum oxide, an electrical insulator. As a result, typical dielectric strength values of 1000 volts AC at 50 microns thickness (i.e. 2 mils) are common.

For your next challenging environment with aluminum components, consider Anoplate and its **AnoLube III-15k**.