

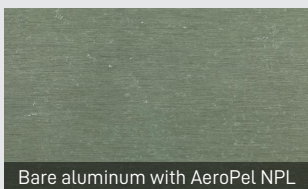
PRODUCT SHEET



Salt Spray Comparison at 1,500 Hours



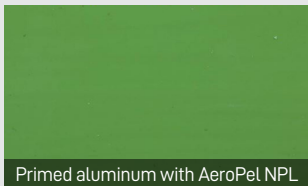
Bare aluminum



Bare aluminum with AeroPel NPL



Primed aluminum with CIC



Primed aluminum with AeroPel NPL

KEY BENEFITS:

- Non-VOC, chrome-free
- One third the dry weight compared to Corrosion Inhibiting Compound (CIC)
- Fast cure time
- Prevents corrosion and UV-weathering

CURRENTLY AN AFWERX SOLUTION PROVIDER

In January 2024, AeroPel NPL was selected as a successful solution provider by the AFWERX Challenge Commercial Solutions Opening (CSO) granting it eligibility to receive Department of Defense (DoD) direct awards.

AFWERX Challenge Commercial Solutions Opening (CSO)
FA2280-23-S-C001

Expedient Basing Challenge
Call FA2280-23-S-C001-002

CSO Selection Award
Meets DFAR 212.70
Enables direct award
Contracting through 18 Jan 2025

Contracting letter available upon request.



APW100 Water-Based Corrosion Protection

Aircraft corrosion and efforts to maintain a robust corrosion prevention and control program can pose significant, often hidden, costs for any operator. The AeroPel APW100 Series is a water-based "Nanocomposite Protective Layer" (NPL) that provides superior protection for aircraft exteriors, airframe structures, and internal components, shielding them from corrosion damage.

Designed to repel moisture, reduce fluid buildup, and lower surface friction, AeroPel can be applied as a topcoat on primers, as a finishing layer over topcoats, or directly on conversion-coated and bare metals. This product was specifically developed for the U.S. Department of Defense (DoD), building on nearly two decades of research and development in nanomaterials. AeroPel is a clear, omniphobic coating resistant to corrosive elements, fuels, hydraulic fluids, and surface abrasion. APW100 is formulated for aviation, offering asset protection for everything from ground equipment to airframes and more.

APW100 functions fully under extreme temperatures ranging from -110°F to 400°F (-80°C to 204°C). Due to its durability, only a thin film (~ 0.001 in. or 0.025 mm) is needed to provide corrosion and erosion protection. With a lower dry weight than traditional corrosion-inhibiting compounds, it also achieves significant weight savings. AeroPel APW100 is made in the USA and formulated to be non-VOC and chromate-free, aligning with the industry's priorities for next-generation aviation coatings.



Application on Rotor
Blades for a H-46 Sea Knight



Application to protect Texas
Civil Air Patrol Aircraft



NPL water repellency



Boeing 737 Wing Section Protection



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