







AeroPel™ APW200 – ECS Protection / Enhancement Series

AeroPel[™] APW200 ECS Protection / Enhancement Series is a water-based Nanocomposite Protective Layer (NPL) developed to provide superior protection for aircraft environmental control systems (ECS), while improving efficiency. Aircraft ECS are critical components which control air supply and thermal controls for crew and passengers.

Developed specifically for aviation applications, ECS-protecting and enhancing NPL uses proprietary nanotechnology to create a water-repelling, omniphobic layer on existing substrates that can drastically minimize the buildup of debris within ECS components, promoting efficient flow. In addition, APW200 NPL provides excellent corrosion protection for the protected substrates.

Key Benefits:

- Improves efficiency by reducing deposit buildup
- · Improves airflow by reducing surface friction
- Functional under extreme temperatures from -60°F to 400°F (-51°C to 204°C)
- Non-VOC and non-biocidal Minimal personal protective equipment required for personnel
- Non-hazardous No restrictions for transportation and storage
- Solvent removable
- Baseline NPL is transparent; tinting is optional for visual identification purposes

General Application of APW200 Series

The NPL technology is the next generation of protection developed for aircraft ECS. Apply NPL to promote efficient airflow (integral to providing air supply), thermal control, and cabin pressurization within the aircraft. With low viscosity, the NPL can be easily applied by spray or paint application with an effective thickness of less than 1 mil. At room temperature, the NPL is cured in under one hour, allowing for less workflow interruption. With zero VOC, workflow in confined space can progress during the application process without stoppage or reduced productivity. NPL is a two-part mixture with a pot life of 72 hours.