

NANOMYTE® PT-10

Drop-in Replacement for Chromate or Phosphate Pretreatment



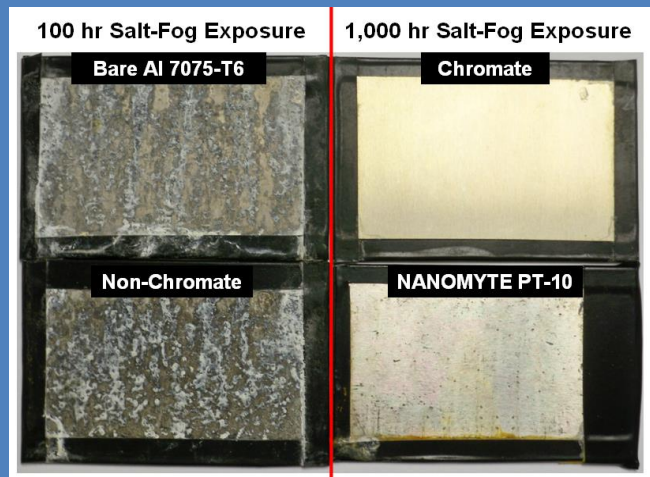
NANOMYTE® PT-10 is an anticorrosion pretreatment that contains no chromate or phosphate. The waterborne formulation consists of a conversion coating and organic sealant. It can be used in spray or immersion systems to pretreat ferrous, aluminum, and galvanized metals.

PT-10 provides excellent corrosion resistance and paint adhesion. It can be applied at ambient temperatures, resulting in energy savings and reduced sludge production. Compared to conventional phosphate products, PT-10 significantly reduces maintenance costs.

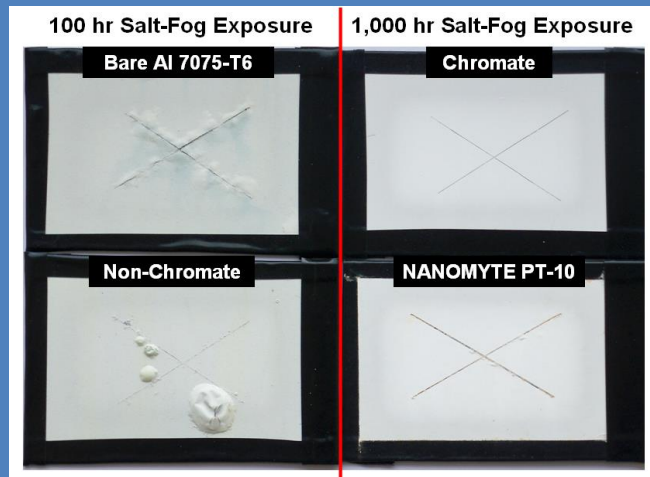
Coatings can be formed in as little as 30 seconds, but typical applications may require up to 2 minutes immersion. Depending on the metal, the resulting coating can range in color from light gray-blue to light brown.

In lab experiments, NANOMYTE® PT-10 treated panels exhibit excellent protection of the corrosion-prone, copper-containing aluminum alloy 7075-T6. Bare metal and a commercial non-chromate coating fail after just 100 hours. The chromate-coated panel serves as the control (top right).

NANOMYTE PT-10 treated panels perform as well as chromate on aluminum 7075-T6 panels coated with MIL-PRF-23377J (Type I, Class N) epoxy primer then scribed and exposed to salt-fog. Only slight blistering is observed along the scribe after 1,000 hours. Significant blistering is observed after just 100 hours on the bare metal, as well as the panel treated with a commercial non-chromate coating (bottom right).



NANOMYTE® PT-10 on Al 7075-T6 outperforms other non-chromate coatings, approaching the chromate standard, after 1,000 hours of salt-fog exposure



NANOMYTE® PT-10 on Al 7075-T6 performs as well as chromate standard after 1,000 hours of salt-fog exposure