

NuGenTec

NuGeneration Technologies, LLC

Specialty Formulated Chemistries

NuKoat RP 1 & RPWF Application Information



**Total Process Integration Through Specialty
Formulated Chemistry**

Background:

- The NuKoat RP 1 & RPWF Liquids are a unique blend of multiple azoles and a proprietary Corrosion Inhibitor. This unique blend provides unmatched corrosion protection in semiconductor devices and Read/Write heads.
- NuKoat RP 1 & RPWF corrosion inhibitors provide cost-effective solutions to corrosion problems by delivering a protective shield to metals including copper, brass, aluminum, steel, cobalt, zinc, magnesium, and silver.





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Corrosion Protection:

- Film forming protection
- Polymeric film (proprietary)
- Typically mono-molecular layer. 5-10 Angstroms. May form thicker layers up to 200 Angstroms.
- Stable film, up to 225 °C
- Removed with acidic or alkaline cleaners



NuKoat RP1

- RP1 is an aqueous (water based) fluid.
- RP1 is readily soluble in all water based solution (polar solutions).

NuKoat RPWF

- RPWF is an aqueous (water based) fluid that contains no water in concentrated form. RPWF is soluble in all polar fluids (water soluble).
- RPWF has been solublized in propylene glycol instead of DI water.



Application Method:

- May be used as a stand alone inhibitor for film forming corrosion protection.
- May be added to existing solutions for added corrosion protection: Cleaners, Rinse Tanks, Slurries, Slicing and Dicing fluids etc...
- Typical Concentration range is from 0.3% to 3% by volume, depending on application.

