

Gemini[®] Fluoro Surfactant BH-10W

Introduction:

BH-10W is a sparingly water-soluble ethoxylated nonionic surfactant that contains no solvent, it is a particularly effective additive to organic polymers and solvent based paints and coatings. BH-10W is widely effective in solution with high or low pH、high or low hard ion concentrations. BH-10W delivers exceptional low aqueous surface tensions at very low concentrations.

Typical Properties:

Ion type	Nonionic
Appearance	Yellow to brown liquid (become waxy paste under around 25°C)
Solid Content	100%
Density	1.40 (25°C g/ml)
PH	6-8. (0.1% wt in water)
Solubility	> 2%(methanol、isopropanol、ethyl acetate、methylbenzene、tetrahydrofuran、chloroform etc.) > 0.1% in water
Insolubility	n-hexane acetate and other non polar solvents
Surface Tension	(25°C, 0.01% wt water solution, Surface Tension<21dyne/cm, 0.1% wt water solution, Surface Tension<18dyne/cm)
Foaming	Effective foamer

Application:

Suggested use rates are 0.01~0.1% wt solid, make adjustment according to your own recipe

- **Paints and Coatings:** Compatible with most aqueous and solvent based paints, will migrate and become a portion of a cured paint in 2K polyurethane paints, can use in UV coating applications
- **Oil Field:** Use in oil acid treatment and fracturing cleanup additive, reduce surface tension, enhance wetting、penetration toward rock stratum, use as foamer and foam stabilizer in foam flooding, use as oil displacing additive in oil recovery enhancement
- **Powder Dispersion:** Deliver excellent wetting、dispersing performance, good effective to PTFE powder dispersion
- **Waxes and Polishes:** Enable better wetting、levelling、anti-cratering, compatible with most aqueous and solvent based waxes and polishes, good anti-orange peel effects and extend the open-time in water based paints and inks
- **Graphic Arts:** Pigment compatibility in inks, improve cylinder life in print equipment, enable better print definition
- **Polymers:** Internal lubricant, enable better anti-smudge、anti-fog、UV resistance, coupling agent for PTFE fillers, reduce plasticizer migration
- **Adhesives:** Tackifier modification, improve wetting, compatible with most aqueous and solvent based adhesives

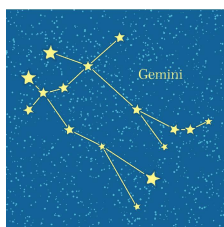
• **Metals and Electronics:** Improve etching efficiency, good plating bath aid, zinc battery scale inhibitor and oxidation inhibitor, wetting aid in photoresist strippers, good use in solar cell flocking additive、 good use in wetting agent of lithium battery electrolyte, enhance anti-corrosion effect to cutting fluids and make cutting fluids easier separate from metal shavings, good use in premium soldering flux and soldering paste

• **Cleaning Solutions:** Reduce surface tension and provide excellent wetting to achieve cleanability, improved wetting and penetration, especially with difficult to wet soil, enable better anti-smudge、 anti-fog after cleaning, mainly used for circuit boards, metal surface, glass, textiles, plastic surfaces and all kinds of low surface energy materials cleaning

Attentions:

- . During processing, wear protection clothes, be careful of eye、 skin contact.
- . Keep the container sealed and store in cool、 well ventilated locations.
- . It will have sediments in low temperature, no worries, please warm up with 40°C hot water and mix well before use.

Packaging/Transport: 25Kg plastic jug. Not classified as dangerous in the meaning of transport regulations.



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