

Gemini[®] PFPE Functional Surfactant BH-50V

Introduction:

BH-50V is a nonionic PFPE surfactant that provide excellent low surface tension in aqueous or solvent based system enable better wetting, spreading, levelling and other benefits. BH-50V can deliver huge wetting power by using very low loading, it is nonflammable, VOC and PFOA free and compatible with other surfactants of any ion type. BH-50V is very easy to formulate into any systems, it is stable in normal, acidic, brine and hard water. BH-50V is 100% solid, so it is a very effective additive to organic polymers and water/solvent based paints, coatings, inks, cleaning products, adhesives and film.

Typical Properties:

Ion type	Nonionic
Appearance	Light yellow liquid
Solid Content	100%
Density	1.75 (25°C g/ml)
PH	6-8 (0.1% wt in water)
Solubility	> 2% in water, methanol, isopropanol, ethyl acetate, methylbenzene, tetrahydrofuran etc.
Insolubility	n-hexane acetate and other non polar solvents
Surface Tension	(25°C, 0.1% wt water solution, Surface Tension < 20dyne/cm)
Foaming	Low foamer

Application:

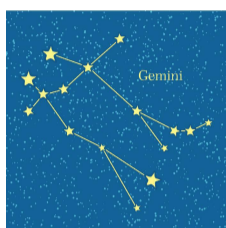
Suggested use rates are 0.01~0.3% wt solid, make adjustment according to your own recipe

- **Water and Solvent based Paints, Coatings, Inks, Waxes, Polishes:** Deliver wetting, levelling, faster spreading, anti-cratering, anti-orange peel effects, anti-fog, UV resistance, anti-stick, excellent re-wet characteristics in multi-coat application, compatible with hydrocarbon surfactants; Pigment compatibility in inks, improve cylinder life in print equipment, enable better print definition and extend the open-time; Can use in UV coating applications
- **Powder Dispersion:** Deliver excellent wetting, dispersing performance, good effective to PTFE powder dispersion
- **Electronics:** Improve etching efficiency, good plating bath aid, zinc battery scale inhibitor and oxidation inhibitor, low foamer in photoresist strippers, good use in solar cell flocking additive, good use in wetting agent of lithium battery electrolyte; Good use in premium soldering flux and soldering paste
- **Polymers:** Internal lubricant, enable better anti-smudge, anti-fog, UV resistance, coupling agent for PTFE fillers, reduce plasticizer migration
- **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
- **Metal Processing:** Enhance anti-corrosion effect to cutting fluids and make cutting fluids easier separate from metal shavings
- **Adhesives:** Tackifier modification, improve wetting, compatible with most aqueous and solvent based adhesives
- **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

Attentions:

- . During processing, wear protection clothes, be careful of eye、 skin contact.
- . Keep the container sealed and store in cool、 well ventilated locations. Shelf life 2 years.

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



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