

# Gemini<sup>®</sup> Fluoro Surfactant BH-13W

## Introduction:

BH-13W is a nonionic surfactant that provide excellent low surface tension in aqueous or solvent based system enable better wetting、spreading、levelling and other benefits. BH-13W can deliver huge wetting power by using very low loading, it is nonflammable、VOC and APEO free and compatible with other surfactants of any ion type. BH-13W is very easy to formulate into any systems, it is stable in normal、acidic、brine and hard water. BH-13W is 100% solid, so it is a very effective additive to organic polymers and solvent based paints、coatings、cleaning products、adhesives and film.

## Typical Properties:

Ion type	Nonionic
Appearance	Light yellow to brown liquid (become waxy paste under around 10℃)
Solid Content	100%
Density	1.43 (25℃ g/ml)
PH	7-8.5 (0.1% wt in water)
Solubility	> 2% in water、methanol、isopropanol、ethyl acetate、methylbenzene、tetrahydrofuran、chloroform etc.
Insolubility	n-hexane acetate and other non polar solvents
Surface Tension	(25℃, 0.1% wt water solution, Surface Tension < 17dyne/cm, 0.01% wt water solution, Surface Tension < 19dyne/cm)
Foaming	Low foamer

## Application:

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

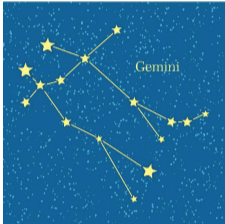
- **Water based Floor Finishes、Waxes、Polishes:** Deliver wetting、levelling、faster spreading、anti-cratering, excellent re-wet characteristics in multi-coat application, compatible with hydrocarbon surfactants
- **Powder Dispersion:** Deliver excellent wetting、dispersing performance, good effective to PTFE powder dispersion
- **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
- **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
- **Aqueous based Paints and Inks:** Good wetting、levelling、anti-orange peel effects and extend the open-time, improve wetting in wood coatings
- **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
- **Metal and 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, 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.



[www.weissbonya.com](http://www.weissbonya.com)

Hunan Weiss Bonya Co., Ltd

Email: [Weissbonya@gmail.com](mailto:Weissbonya@gmail.com)