

FA 2

Ultra-Low IFT Surfactant System



Product Description

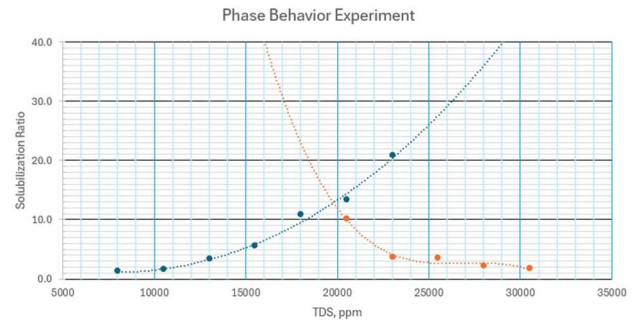
FA 2 is an ultra-low interfacial tension oil displacement surfactant system, containing mainly non-ionic surfactants. It is a patented, highly efficient oil displacement agent, specially designed for applications in chemical flooding to enhance oil recovery.

Advantages

- Salinity tolerance: up to 30,000 mg/L
- Application temperature: up to 60 °C
- Ultra-low interfacial tension: lower to $\sim X 10^{-3}$ mN/m
- Ultra-high recovery rate, more than 95% oil recovery from laboratory core flooding experiments

Applications/Recommended Treatment

- Used for surfactant-based chemical enhanced oil recovery for water flooding reservoirs.
- Laboratory phase behavior experiments showed the easy formation of Winsor III type microemulsion.
- Core flooding experiments using this oil displacement surfactant system resulted in 70-98% oil recovery
- Filed application since 2019
- Field trial OOIP improvement: 3-10%
- Recommended treatment dosage: 0.2% to 2%



Typical Properties

- Appearance: Dark brown Liquid
- Specific Density, 0.97-1.05 g/cm³
- Product activity, 65-75%
- Viscosity, < 1000 cp
- Flash Point, > 210 °F/100 °C
- Pour Point, < 32 °F/0 °C
- Soluble in water

Packaging and Storage

- 265 Gal (900 Kg) totes (IBCs) or 55 Gal (180 Kg) drums
- Store the product in the containers with closed lids in a dry, cool and well-ventilated place.