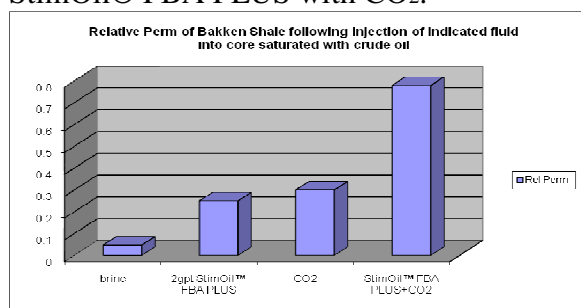


### **PRODUCT DESCRIPTION**

StimOil® FBA PLUS is a patent protected, thermodynamically stable, non-emulsifying complex nano-fluid blend designed to be used specifically in CO<sub>2</sub> water floods and CO<sub>2</sub> gas assisted fracturing. StimOil® FBA PLUS offers excellent performance for improved frac fluid recovery, decreased surfactant adsorption on shale and sand, and in reducing water-oil emulsions, giving clean break at the interface between oil and water. It was developed to contain environmentally conscious materials and contains no nonyl-phenol ethoxylates.

CO<sub>2</sub> gas assisted and water flood tests with StimOil® FBA PLUS showed improved water (50%) and oil (70%) production. StimOil® FBA PLUS functions as a surface tension reducer, non-emulsifier, and as a remediation treatment. Table 1 shows the relative permeability of sandstone core following comparative treatments: brine, StimOil® FBA PLUS, CO<sub>2</sub> alone and StimOil® FBA PLUS with CO<sub>2</sub>.



### **RECOMMENDED APPLICATION**

Recommended concentrations of StimOil® FBA PLUS are typically 0.2 v% and up to 0.5 v%. Fluid to CO<sub>2</sub> ratio of 4:1 is recommended in CO<sub>2</sub> assisted fracturing. Both are dependent on the well fluids and

produced oil. StimOil® FBA PLUS can also be added to the water phase in a WAG treatment or can be added directly to the CO<sub>2</sub> injection lines (at 0.2-0.5 v%) based on CO<sub>2</sub> at 1100 psi. It is advisable to perform emulsification tests prior to inclusion of the StimOil® FBA PLUS in any treatment to determine the appropriate concentration to provide the optimum results.

### **COMPATIBILITY**

StimOil® FBA PLUS is compatible with nonionic and cationic additives and many other production, stimulation or remediation chemicals. Compatibility testing is advised.

### **TYPICAL PHYSICAL PROPERTIES**

Form:	Liquid
Chemical Family:	Organic
Color:	Light yellow
Solubility:	water, oil, acid, brine
Odor:	Citrus
Wt. per Gal.:	7.8 lbs.
Charge:	Nonionic/cationic
Flash Point:	77°F (25°C)
Freeze Point:	<-42°F (<-41°C)

### **HANDLING/STORAGE**

Avoid contact with eyes, skin or clothing. Recommend use of splash goggles and rubber gloves. Refer to the Material Safety Data Sheet (MSDS).

### **PACKAGING**

StimOil® FBA PLUS is available in 55 gal. Poly drums, 330 gal. totes or bulk transport loads.

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