Witconate™ AOS
Sodium C14-16 Olefin Sulfonate

Specifications

	Min	Max
Activity (%)	38	40
Klett Color 12% in H2O	- -	120
Appearance (@ 25C)	Clear yellow liquid	
pH (12.8% Aqueous)	8.0	10.0
Klett Color 12.8% in H2O	- -	120

Solvent	I	P	D	S	C	G	E
10% in Water					X		
50% in Water					X		
10% in Aromatic 150			X				
50% in Aromatic 150			X				
10% in Kerosene			X				
50% in Kerosene			X				
10% in 9 lbs/gal Brine			X				
10% in 9 lbs/gal Brine Plus 25% IPA			X				
50% in 9 lbs/gal Brine Plus 25% IPA			X				
10% in 10 lbs/gal Brine Plus 25% IPA			X				
50% in 10 lbs/gal Brine Plus 25% IPA			X				

I - Insoluble, **P** - Partially Dispersible,
D - Dispersible, **S** - Slightly Soluble,
C - Soluble, **G** - Gel,
E - Emulsion

Typical Properties

Viscosity (cp C)	30-200
Specific Gravity	1.06
pH 5%	7.7
Odor	Bland
Appearance (@25 C)	Liquid, Yellow
Water Content (%)	58
Pour Point (C)	-1.1
Density (@77 F) (Lbs/Gal)	8.8
Flash Point (C)	>93.3
Activity (%)	38-40
pH (12.8% aqueous solution)	8-10
Klett Color	120 in 12.8% aq

Applications and Uses

- Wetting
- Emulsifying
- Foaming
- Dispersing
- Extra Mild to Skin
- Cleaning
- Hard Water Tolerance
- Detergency
- Cleaning Formulations
- Soil Remediation Surfactant

Advantages

Witconate AOS is a unique, high performance foaming agent with broad-spectrum capabilities for the oil and gas industry. Witconate AOS has proven to be highly effective in the unloading of undesirable liquids and particulates from gas producing wells. Witconate AOS exhibits exceptional thermal stability, even in environments with temperatures of up to 400° F. Witconate AOS is an excellent fresh water foamer delivering maximum results when formulated for cost-effective air/foam drilling operations. Witconate AOS is also an excellent oil/water foamer with significant enhanced oil recovery potential. In addition, Witconate AOS is compatible with a wide variety of other foaming media and additives enabling formulators to select Witconate AOS as an efficient component for very specific well applications.

Witconic sulfonic acids are the base acids used to make detergent sulfonates. They can be neutralized in situ to produce the anionic surfactant desired. Witconate anionic surfactants include alkylaryl sulfonates, olefin sulfonates, alkane sulfonates and specialty sulfonates. These

products are workhorse surfactants in numerous household and industrial and institutional cleaning applications.

How it Works

Witconate AOS is an alpha-olefin sulfonate surfactant that has been specially produced by Witco to exhibit enhanced foaming performance characteristics in extremely high temperature environments. As a result, Witconate AOS exhibits exceptional thermal stability in addition to outstanding solubility and foam height stability in fresh water systems.

The specifications & properties listed above are for products manufactured in the United States.