

“Where **Quality** and **Service** Meet”

# IntegriFACTANT SDO 30



A PEG AND DEA  
REPLACEMENT ALTERNATIVE

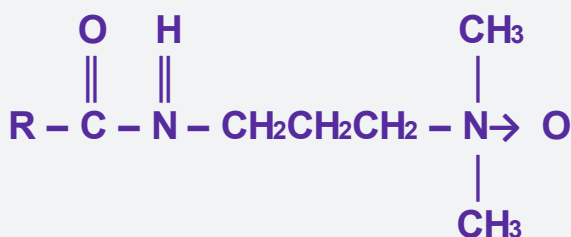
IntegriFACTANT SDO 30

**INCI Name: Soyamidopropylamine Oxide**

**Properties:**

IntegriFACTANT SDO 30 - "Green Chemistry," using GMO-free Soybean Oil in line with the trend to formulate from natural resources. It is also PEG-free and a smart alternative to DEA.

**Chemical Structure:**



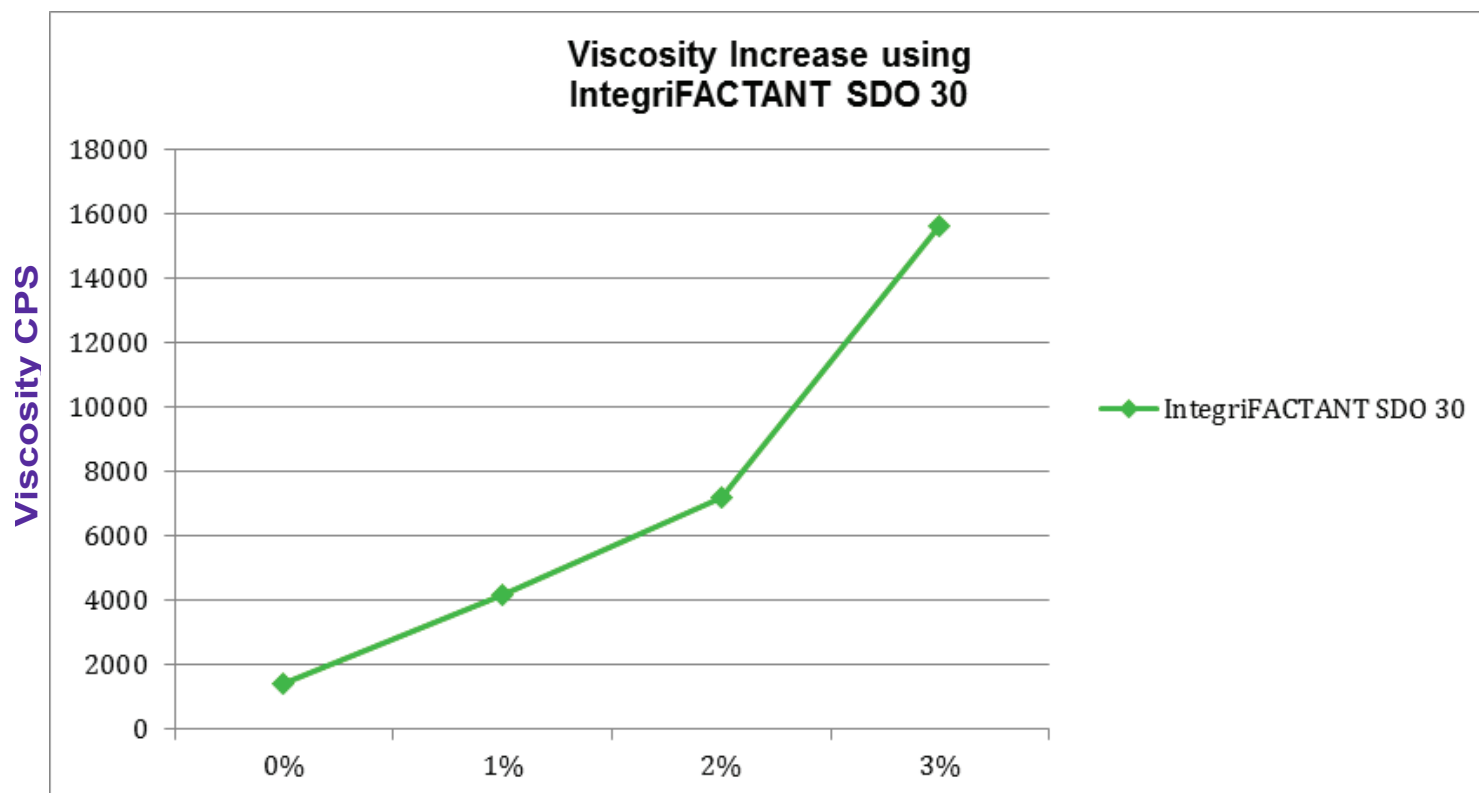
**Specifications:**

Appearance	Yellowish/Clear Liquid
Active Content (%)	28 - 30
Free Amine (%)	0.5 Max
Color (VCSO)	3.0 Max
pH	6.5 - 7.5

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## IntegriFACTANT SDO 30



Base = 65% water + 35% IntegriFACTANT SFB (Sulfate-free blend)  
Above graph shows Base plus the addition of 1%, 2% and 3% of IntegriFACTANT SDO 30.

## IntegriFACTANT SDO 30

### Formulation Benefits:

- Exceptional foam booster for formulations such as shampoos, body washes, and body creams, to name a few.
- Excellent salt-tolerance in formulations containing high levels of salt, such as hair dyes.
- Superior foam-stability, even in low pH formulations.
- Can replace anionic surfactants for shampoo and body wash formulations, although it is more commonly known to replace nonionic surfactants.
- Enables the development of mild- and low-irritant products by reducing or removing SLES and DEA levels in the formulations.

**IntegriFACTANT SDO 30 is suitable for use in clear systems.**

### Recommended Use Level:

1 - 5%

### Function in Formulations:

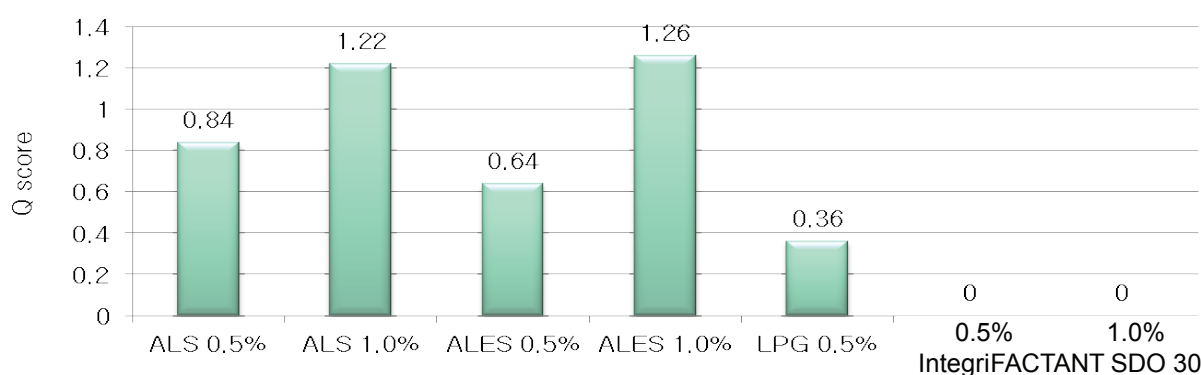
- Foam Booster
- Viscosity Builder
- Cleansing Agent
- Excellent Skin Feel

### Suggested Applications:

- Hand Soap
- Shampoo
- Body Wash

IntegriFACTANT SDO 30

Irritation test (HET-CAM , RTM) of IntegriFACTANT SDO 30



**ALS** : Ammonium Lauryl Sulfate

**ALES** : Ammonium Laureth Sulfate

**LPG** : Lauryl Polyglucoside

**IntegriFACTANT SDO 30** : Soyamidopropylamine Oxide

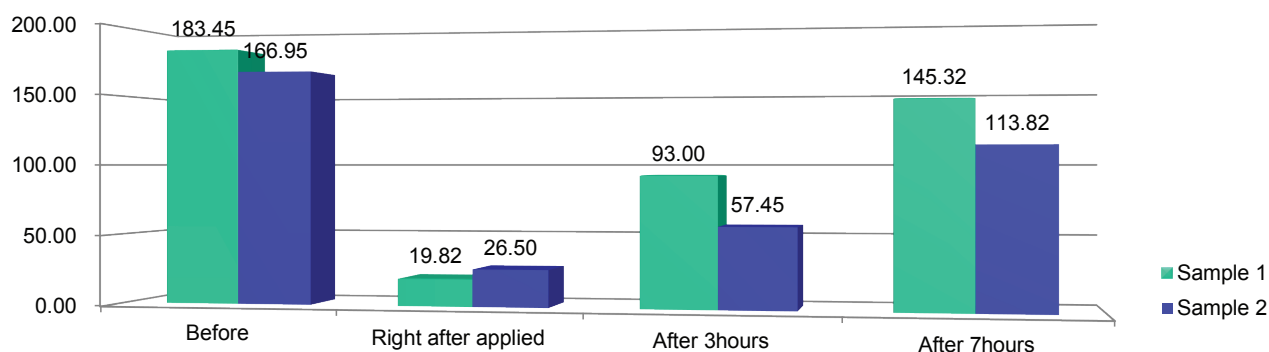
[Q] score	No Irritation (1)	Very slightly irritating (2)	Slightly irritating (3)	Irritating (4)	Strongly irritating (5)
0.00 < Q < 0.40	⊙				
0.41 < Q < 0.80		⊙			
0.81 < Q < 1.20			⊙		
1.21 < Q < 2.00				⊙	
2.01 –					⊙

As shown on above result, nonionic surfactant – Lauryl Polyglucoside and Soyamidopropylamine Oxide (IntegriFACTANT SDO 30) are less irritating on skin than anionic surfactant – Ammonium Lauryl Sulfate and Ammonium Laureth Sulfate. Thus, formulations that uses nonionic surfactant has less irritating effect on skin.

## IntegriFACTANT SDO 30

### Reducing Sebum on Scalp of IntegriFACTANT SDO 30

#### Sebum on Scalp ( $\mu\text{g}/\text{cm}^2$ )



\* Test Formulations (Shampoo Formulation with IntegriFACTANT SDO 30)

Ingredients	Sample 1	Sample 2
Water	To 100	To 100
Ammonium Lauryl Sulfate Solution (25%)	28.0	15.0
Ammonium Laureth Sulfate Solution (25%)	20.0	10.0
Lauryl Polyglucoside (50%)	0.0	10.0
<b>IntegriFACTANT SDO 30</b>	<b>0.0</b>	<b>2.5</b>
Phenoxyethanol	0.2	0.2
<b>IntegriQUAT 10-3000</b>	<b>0.4</b>	<b>0.4</b>
Cetyl Alcohol	1.0	0.0
Menthol	0.0	0.2
Menthyl Lactate	0.0	0.2
Dimethicone	1.0	0.0
PPG-3 Caprylyl Ether	0.0	0.3
Citric Acid	0.1	0.1
Trihydroxystearin	0.3	0.0
Fragrance	0.7	0.7

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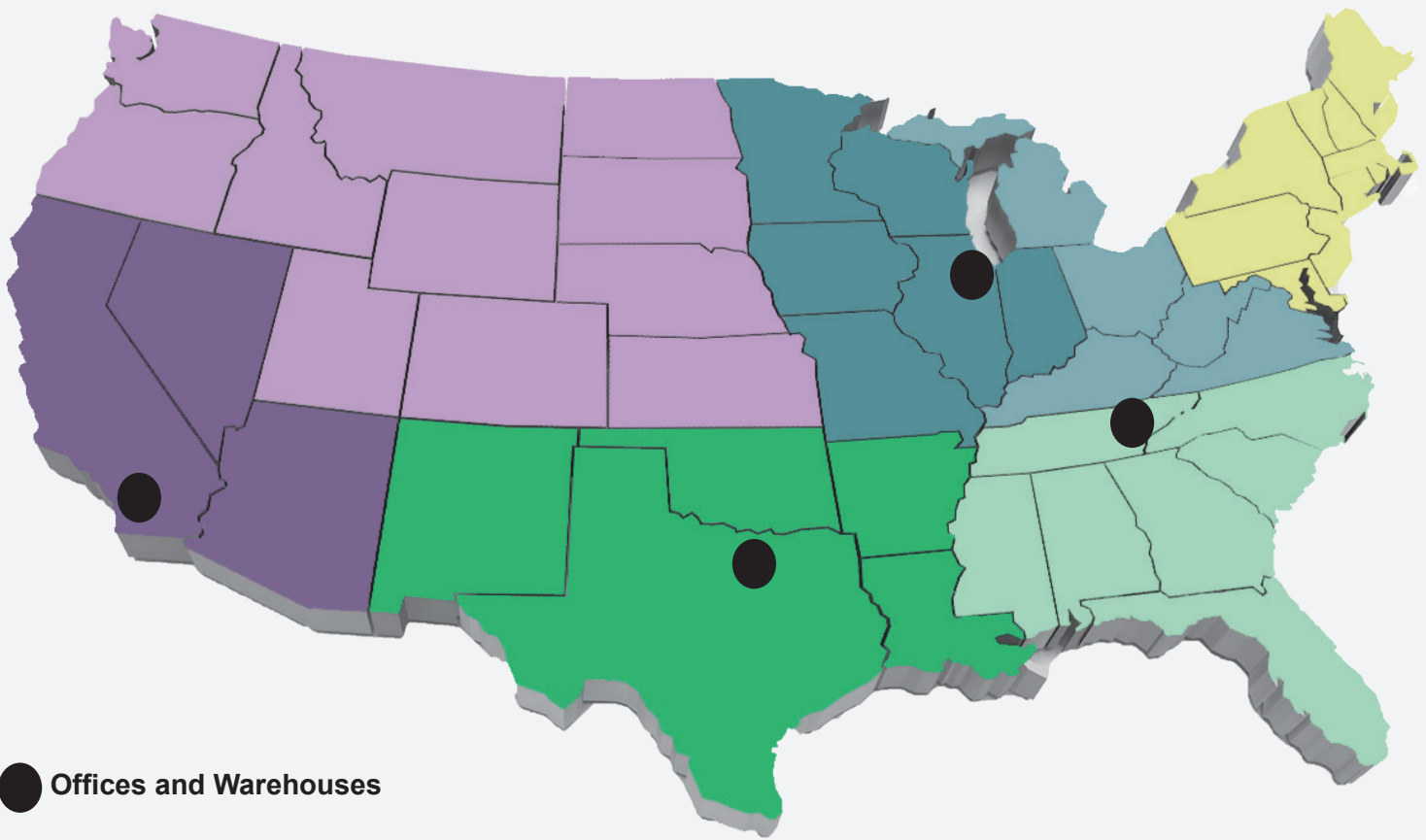
## Technical Support...

Our in-house Technical and Applications Lab is always available to address the growing needs of our customers. Whether you have a raw material technical question or need formulating assistance, we are here and ready to help.

At Integrity Ingredients Corporation, we know the important role our ingredients have in your formulations. Our lab is solely dedicated to actively working with all of our ingredients in a variety of applications. By doing this, we can make accurate recommendations to our customers on how our ingredients will interact and perform with other ingredients and system types.

Our team at Integrity Ingredients Corporation recognizes that you have many choices when formulating or purchasing your raw materials, and we want to thank you for your interest in our products and services.





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