



## OXIFLOW® S 6800

A versatile nonionic rheology modifier  
for Personal Care applications.

**OXIFLOW® S 6800** is a solution developed to promote efficient thickening of surfactant-based systems, especially salt- and sulfate-free formulations.

**OXIFLOW® S 6800** combines a unique sensory feel with the convenience of a liquid ingredient which does not require neutralization and can be easily incorporated into formulations.



PERSONAL  
CARE

### INCI NAME

Sorbeth-450 Tristearate (and) Water (and) PEG-9 Cocoate (and) PEG-32 Distearate (and) PEG-175 Distearate.

### APPLICATIONS

- Shampoo
- Shower gels
- Bath foams
- Liquid soaps
- Facial cleansers
- Intimate washes

### PROPERTIES

- Appearance at (25°C): viscous liquid
- pH, 5% IPA:H<sub>2</sub>O (1:1): 5.0 - 7.0
- Recommended Dosage: from 0.5% to 8%

### BENEFITS

- Mild and non-irritant
- Hair and skin conditioning
- Suitable for clear formulations
- Cold processable and easy-to-use (no neutralization required)
- Synergistic thickening with electrolytes and broad compatibility
- Preservative-free



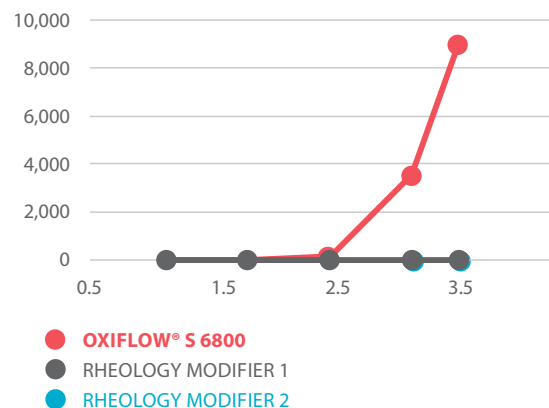
OXITENO

Evolution by chemistry

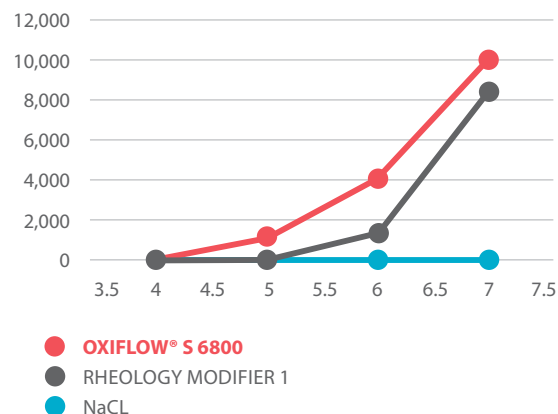
## PERFORMANCE

**OXIFLOW® S 6800** is an associative rheology modifier which offers outstanding performance in the thickening of a variety of hair and skin care formulations. It is particularly effective in formulations with low surfactant concentration levels and systems which are difficult to thicken with electrolytes.

Effectiveness of OXIFLOW S 6800 in a low surfactant concentration system with 6 wt% total actives (SLES:CAPB) and pH 6.0 - 7.0



Effectiveness of OXIFLOW S 6800 in a sulfate-free surfactant system with 15 wt% total actives (SS:CAPB) and pH 6.0 - 7.0



## TRANSPARENCY

OXIFLOW® S 6800 allows the development of clear and transparent formulations in a wide dosage range and across many different surfactant systems or concentrations. Surfactant system with 8.0 wt % of **OXIFLOW S 6800**.

Transparency is obtained even at high concentrations of the rheology modifier.



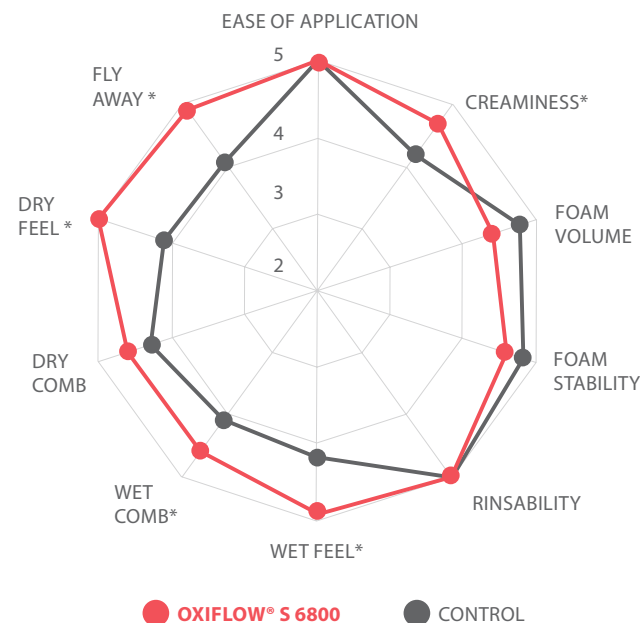
## MILDNESS

Because of its associative behavior, OXIFLOW® S 6800 helps to reduce the irritation potential of surfactants. OXIFLOW® S 6800 is non-irritating to the eyes (HET-CAM test) and does not have the potential for primary dermal irritation, accumulated dermal irritation, or dermal sensitization, according to results from the Human Repeat Insult Patch Test (HRIPT).

## CONDITIONING

Shampoos with OXIFLOW® S 6800 provide better wet combability, less fly-away and softer touch, when compared with a control formula. Similar conditioning results are observed in skin cleansing products, in which OXIFLOW® S 6800 contributes to a unique sensory feel and smoothness.

## SENSORY RESULTS – SALON TEST



Half-head test results of formula with OXIFLOW S 6800 vs. control formula. (\*) Statistically different results (ANOVA, 95% CI, n=10)

**WARNING TO USERS:** This Technical Bulletin contains information presented in good faith, based on Oxiteno's current knowledge about the matter, and has only indicative value. Any information, including product use suggestions, must include testing and experimental verifications, essential to ensure product fitness for each specific application. The final formulator is also responsible for observing local legislation and obtaining all necessary authorizations. When handling the product, it is essential to refer to the material safety data sheet. In case of doubts or additional needs, contact our customer service channels. Icons' credits to The Noun Project.