



DANOX PEARL GS

Natural Pearling Agent

Sulfate & EO-Free
COSMOS Approved

INCI: Glyceryl Stearate, Cocamidopropyl Betaine, Sodium Lauryl Glucose Carboxylate, Lauryl Glucoside

DANOX PEARL GS is a next-generation pearling blend based on glyceryl stearate, a naturally derived pearling wax. Unlike conventional pearling agents typically based on ethylene glycol distearate (EGDS), a fossil based glycol derivative that cannot be classified as EO-free, DANOX PEARL GS offers a more sustainable aligned alternative.

It enables cold process formulations across a wide range of surfactant systems, delivering a stable and elegant pearlescent effect. The product is sulfate-free, EO-free, and suitable for green labelling standards such as COSMOS, Ecolabel, and Nordic Swan.

PRODUCT PROFILE

Appearance at 20°C	White flowable paste
Dry matter (%)	26-30%
pH (as it is)	6 – 7
Preservative	Benzyl Alcohol, Benzoic and Sorbic Acid

SUSTAINABLE ATTRIBUTES

- 95% NOC (ISO 16128)
- Readily biodegradable (AER & ANA)
- RSPO MB certified
- Vegan certified
- Ecolabel & Nordic Swan
- COSMOS Approved

BENEFITS

- Cold process pearlizer
- Sulfate-free, EO-free
- Very mild
- Brings elegant pearlescence
- Viscosity booster

APPLICATION

DANOX PEARL GS is suitable for all types of cleansing formulations, including shampoos, shower gels, baby cleansers, facial washes, among others.

Recommended formula incorporation

Add **DANOX PEARL GS** at room temperature at the end of the process. If possible, add the thickener after the pearling agent, as it contributes increasing viscosity.

Recommended dosage

3-6%

Higher dosages can also be used to achieve more opacity.

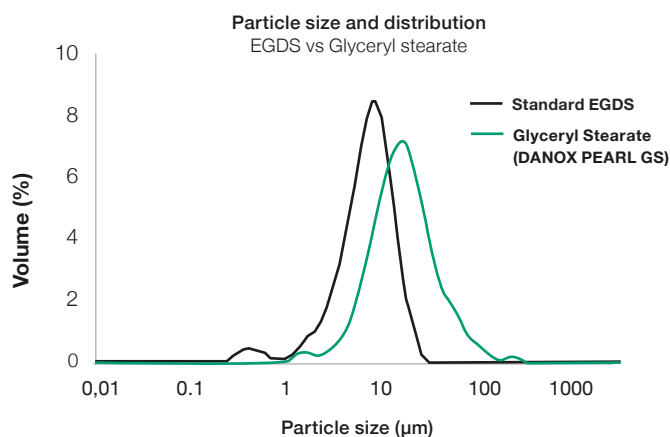
Inventories

EU (REACH), US (TSCA), IECIC (Existing Cosmetic Ingredients-CHINA).

PEARLING PROPERTIES AND STABILITY

Pearlescence

DANOX PEARL GS brings elegant pearlescent effect to final formulations. This is result of a proper particle size distribution of glyceryl stearate crystals in the optimized surfactant blend. The performance is comparable to standard pearling blends based on the typical pearling wax EGDS, as both show small particle size and a narrow dispersion.



EGDS: Ethylene Glycol Distearate. Standard EGDS refers to a pearling blend based in EGDS, SLES and Alkanolamide.





APPARENT DENSITY

The apparent density is a key property for predicting the stability of pearling agents within final formulations. A broader density range generally correlates with more robust stability performance.

DANOX PEARL GS covers a wider apparent density than standard EGDS-pearlizers, indicating robust stability across diverse formulation systems, from traditional systems to more challenging sulfate-free and EO-free formulations.

DANOX PEARL GS	0.95-1.07 g/mL
Standard EGDS	0.99-1.07 g/mL

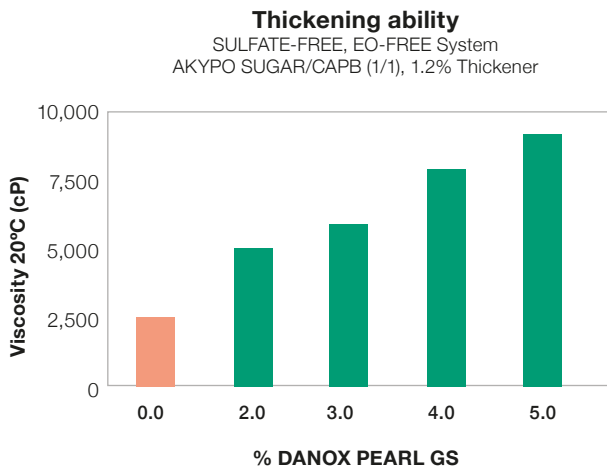
Standard pearling agent based in EGDS, SLES and Alkanolamide.

ADDITIONAL BENEFITS IN FORMULATION

Thickening ability

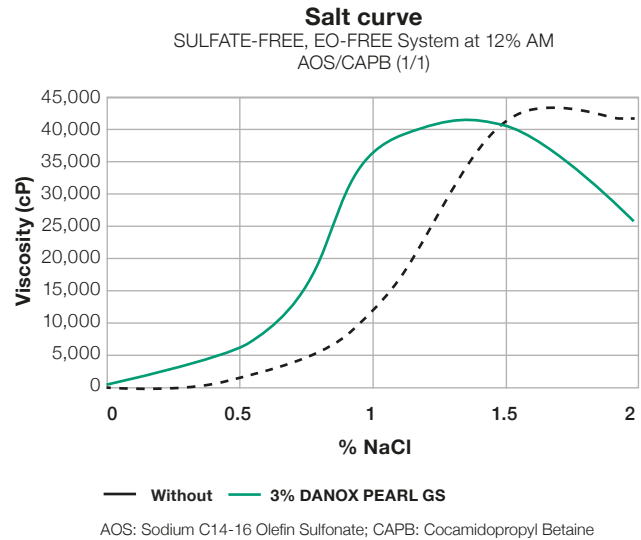
DANOX PEARL GS functions as an effective viscosity enhancer, even in challenging systems such as sulfate-free and EO-free formulations.

The viscosity of a formulation increases upon the addition of the pearlizer:



AKYPO SUGAR LM-42: Sodium Lauryl Glucose Carboxylate, Lauryl Glucoside; CAPB: Cocamidopropyl Betaine. Thickener is EXCEPARL LM-LC: Lauryl Lactate.

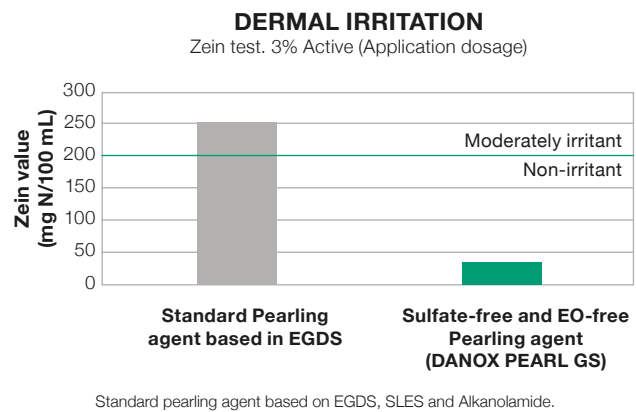
It allows the reduction of amount of thickening agent or salt:



AOS: Sodium C14-16 Olefin Sulfonate; CAPB: Cocamidopropyl Betaine

MILDNESS

DANOX PEARL GS is an extremely mild pearling product. It is ideal for skin sensitive and gentle formulations. It shows lower dermal irritation (in vitro Zein test) compared to conventional EGDS-based pearling systems.



Standard pearling agent based on EGDS, SLES and Alkanolamide.

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