



DANOX LS-38

**Sulfate & PEG-free
Family Wash**

INCI: Lauryl Hydroxysultaine, Disodium Lauryl Sulfosuccinate

DANOX LS-38 is an optimized viscous liquid blend of semi-solid anionic and amphoteric surfactants. It is easy to use, pourable, and requires no heat during mixing in the final cleansing formulation.

PRODUCT PROFILE

Character	Anionic, amphoteric
Appearance at 20°C	Clear viscous liquid
Dry matter (%)	40-45%
Active Matter (%)	Approx. 36%
pH (as it is)	5.0 – 7.0
Preservative	Potassium Sorbate, Sodium Benzoate

SUSTAINABLE ATTRIBUTES

- 84% NOC (ISO 16128)
- Readily biodegradable
- RSPO MB certified
- Vegan certified

BENEFITS

- Easy to handle & cold process
- High flash foam
- Suitable for cold showers
- Easy rinse-off
- Mild and gentle

APPLICATION

DANOX LS-38 is especially recommended for cold showers with flash foam and easy rinsing. It is also suitable for face cleansers and shampoos for all family members.

Recommended Dosage

Main surfactant: 20 – 42%

Co-surfactant: 10 – 20%

Inventories

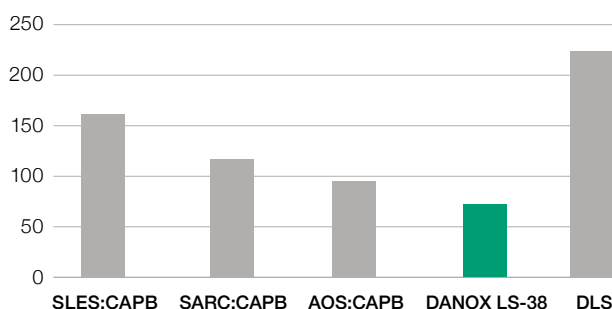
EU (REACH), US (TSCA), IECIC (Existing Cosmetic Ingredients-CHINA)

MILDNESS

DANOX LS-38 is a mild product for the skin, significantly reducing the irritation caused by Disodium Lauryl Sulfosuccinate.

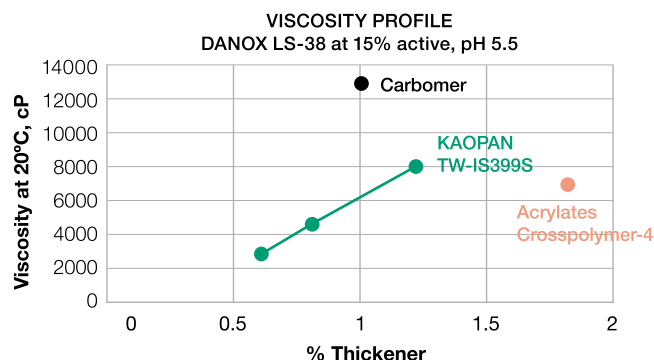
Skin irritation

Zein Test (mg N/100 mL)



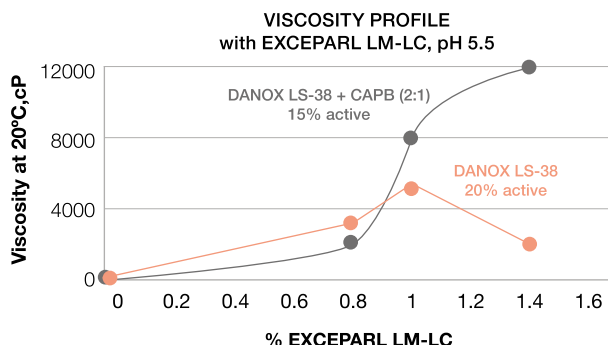
THICKENING ABILITY

DANOX LS-38 can be thickened with different synthetic thickeners depending on the viscosity requirements. PEG derivatives, as KAOPAN TW-IS399S (*PEG-160 Sorbitan Triisostearate*) is a good option to improve viscosity level.



DANOX LS-38 is easy thickened with natural thickeners, as for instance EXCEPARL LM-LC (*Lauryl Lactate*), when the active matter is above 20%. At lower percentage of active matter, the advice is to combine **DANOX LS-38** with CAPB at a 2:1 ratio (total 15% a.m.) to achieve high viscosities.



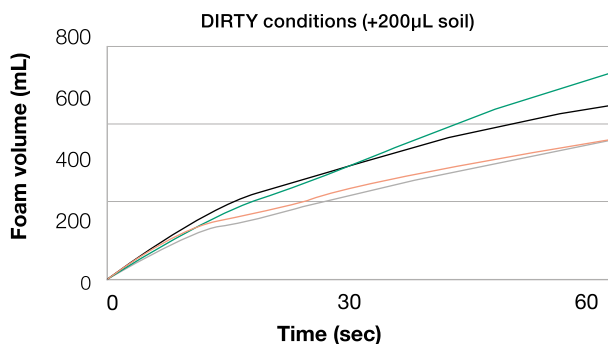
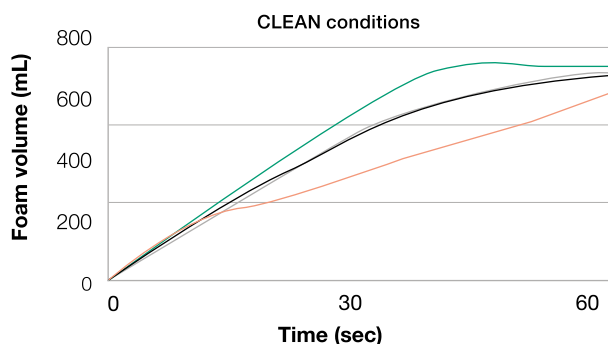


FLASH FOAM PROPERTIES

DANOX LS-38 provides flash foam volume in clean conditions and also in the presence of sebum, therefore is highly recommended for shampoos. It is actively foaming within a broad pH range of 4 – 7.

Sita Foam Test

0.1% am formula, 5°f water hardness, 40°C, 1000 rpm agitation speed



— DANOX LS-38 — SARC:CAPB
— AOS:CAPB — SLES:CAPB

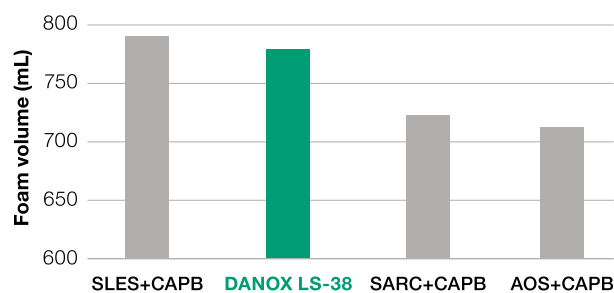
SUITABLE FOR COLD SHOWERS

Cold showers can help save on energy costs and reduce environmental impact. Additionally, they offer several health benefits, such as enhancing circulation and improving oxygen and nutrient delivery in the body among other properties.

In addition to flash foaming, **DANOX LS-38** also generates high foam volume at low temperatures, thus making it suitable for cold showers. The foam generated at 18°C is above other sulfate-free anionic surfactant combinations with CAPB, and at the level of SLES.

FOAM VOLUME AT 18°C

SITA FOAM TEST (120 sec)

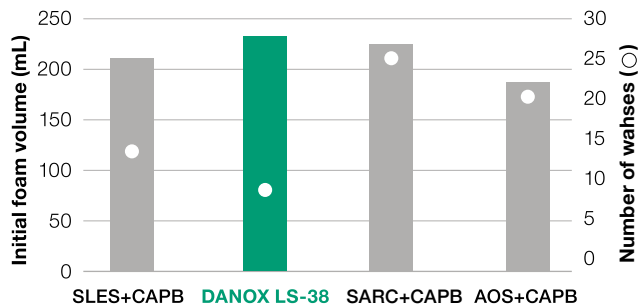


RINSE EFFICIENCY

Despite the excellent foam volume that **DANOX LS-38** can generate, it has been proven to require fewer rinse-off steps. This saves time, uses less water during showers, and offers greater convenience overall.

WASHES STEPS

SITA FOAM TEST (100 mL tap water)



AOS: Sodium C14-16 Olefin Sulfonate | SARC: Sodium Lauroyl Sarcosinate
SLES: Sodium Laureth Sulfate | CAPB: Cocamidopropyl Betaine

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