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APROVADO

Dep. Qualidade

DANOX® PL-10

- Pearling agent
- High pearling effect
- High concentration
- Preservative free
- No Nitrogen based surfactants
- Easy to handle
- Environmentally friendly

High purity pearling agent that can be easily dispersed in surfactant mixtures at room temperature. Its use, even at very low concentration (3-10%), allows to obtain final products with a very nice pearled appearance and stable

CHEMICAL IDENTIFICATION

INCI Name : Sodium Laureth Sulfate / Glycereth-2 Cocoate / Glycol Distearate

CAS Number : 68891-38-3 / 68201-46-7 / 627-83-8

TECHNICAL SPECIFICATIONS

		Kao Method
APPEARANCE (20°C) :	Pearled white fluid paste	KCSA-258
ODOUR :	Characteristic	KCSA-267
DRY MATTER (%) :	50 - 54	KCSA-283
pH (as it is) :	4.0 - 5.0	KCSA-014
VISCOSITY (20°C, cPs) :	10000 max.	KCSA-227



DANOX® PL-10

TYPICAL PROPERTIES

DENSITY (20°C, g/mL) :	1.01 approx.
WATER SOLUBILITY (20°C) :	Dispersible
MICROBIOLOGICAL CONTROL (cfu/g) :	10 max.
OTHERS :	Preservative free
CHARACTER :	Anionic / Non-ionic

APPLICATION PROPERTIES

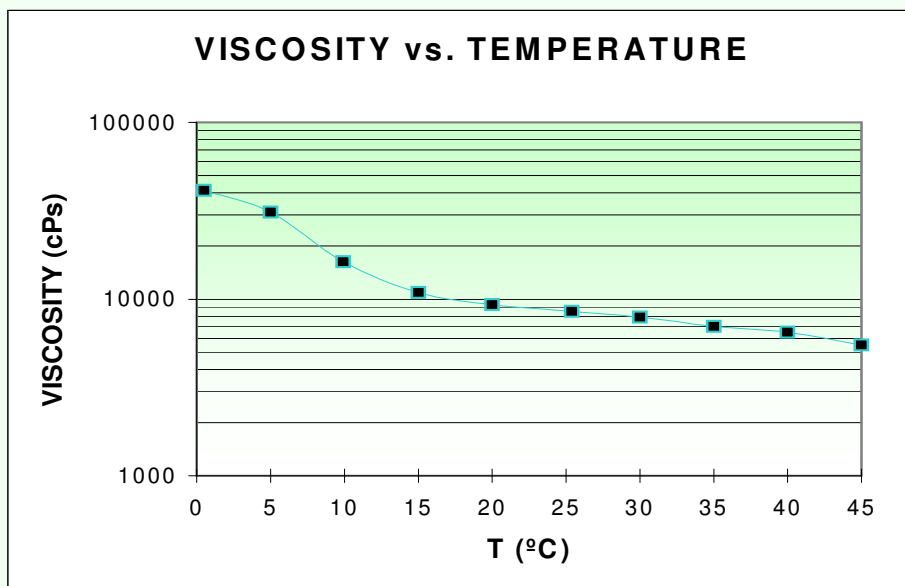
- Easily dispersible at room temperature in all type of surface-active compositions.
- Compatible with all type of surface-active agents: anionic, non-ionic or amphoteric.
- Compatible with other type of final appearance modifiers, as acrylates or others.
- Its anionic character contributes to the final detergent power of the composition where it is included.
- Its non-ionic component complements the emollient and lubricating power of the formula where it is included.
- Its current percentage of use is between 3 and 10%, but higher quantities can be used after checking the stability.
- Even though a lot of stability tests with DANOX® PL-10 at different concentrations and using different surface-active compositions (based on SLES, AOS, Alkyl Carboxylates, Sulphosuccinates, etc..), have been done without troubles, it is always advisable to check stability in each definitive composition.
- DANOX® PL-10 doesn't present any instability when used in typical cosmetic compositions (SLES, amide, betaine,...) after long storage periods.
- DANOX® PL-10 presents an additional thickener effect, which allows to reduce the content of other thickening additives in the final composition.



DANOX® PL-10

ADDITIONAL PROPERTIES

1. TEMPERATURE STABILITY



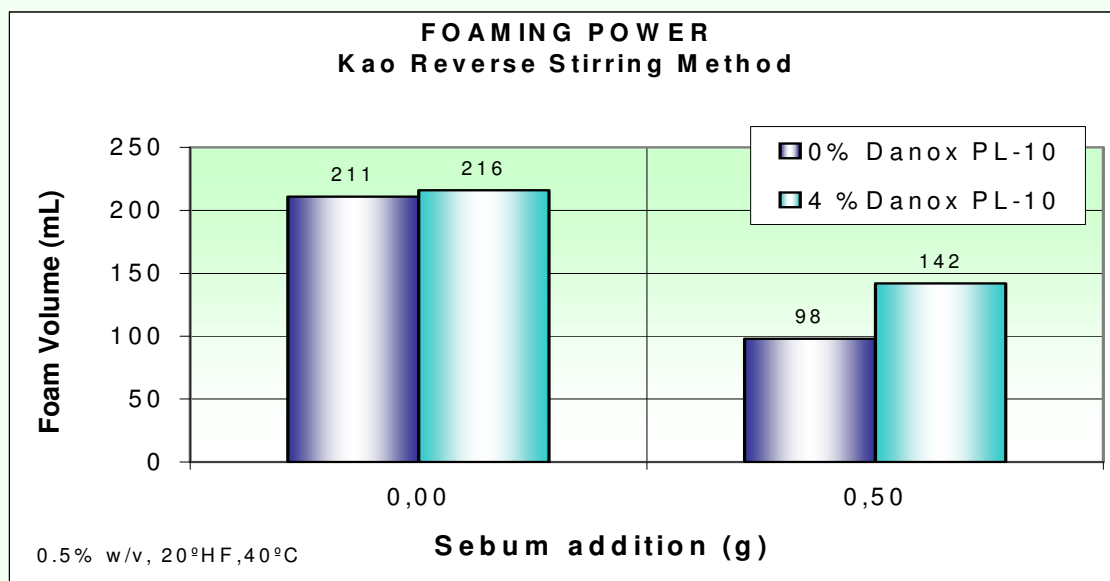
TEMPERATURE	BROOKFIELD VISCOSITY (cPs)	TEMPERATURE	BROOKFIELD VISCOSITY (cPs)
0°C	41300	25°C	8500
5°C	31100	30°C	7900
10°C	16300	35°C	7000
15°C	10900	40°C	6500
20°C	9300	45°C	5500



DANOX® PL-10

ADDITIONAL PROPERTIES

2. FOAMING INFLUENCE (in presence of Spangler soil)



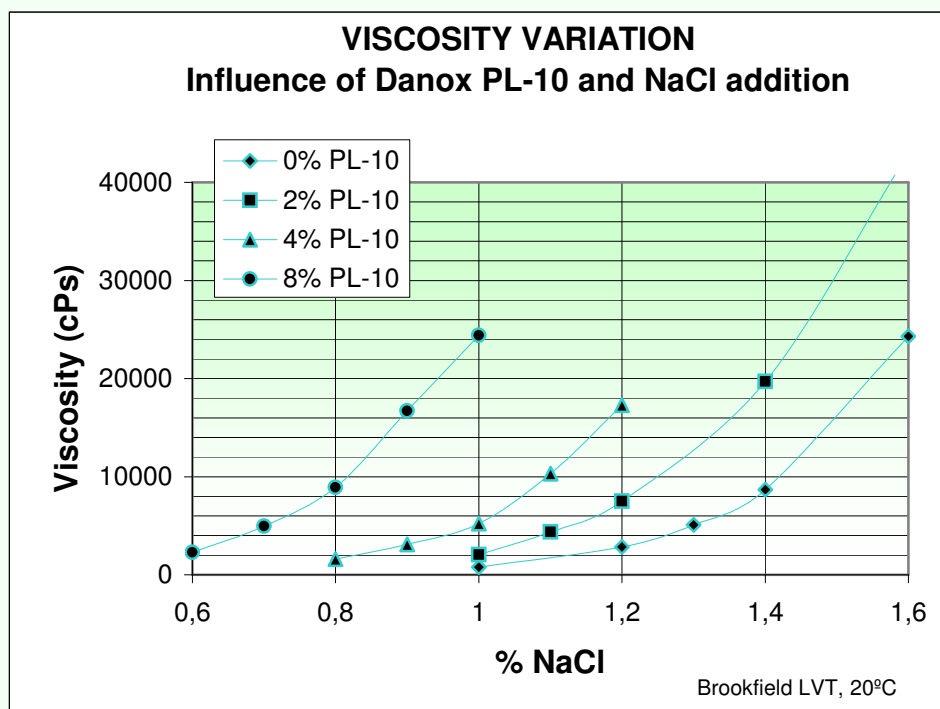
DANOX® PL-10

ADDITIONAL PROPERTIES

3. THICKENING EFFECT

FORMULATION:

12 % active SLES (EMAL® 270E)
1.8% active CAPB (BETADET® HR)
1.5% commercial PEG-4 Rapeseedamide (AMIDET® N)
0-2-4-8% **DANOX® PL-10**



DANOX® PL-10

STORAGE – HANDLING – SHELF LIFE

- DANOX® PL-10 is chemically stable for a long period of time under appropriate storage conditions (temperature of 25°C and original unopened container).
- In the case of long storage time, it is advisable to homogenise the product before its use, especially if it has been submitted to low temperatures. Small changes in the appearance can be easily recovered by applying a moderate agitation at 30°C. A general advise is to use the complete container every time.
- The shelf life of DANOX® PL-10 can be considered of 1 year minimum under proper storage conditions. After longer storage time some of its characterising parameters (*odour*, *appearance*, *colour*, *pH*,...), should be checked before using it.

SAFETY – TOXICOLOGY AND ECOLOGY

NOT TESTED ON ANIMALS

CLASSIFICATION : R36/R38
(According to the Dangerous Preparations Directive 1999/45/EC)

ZEIN TEST (Skin Irritation Potential, In Vitro Method): NON IRRITANT

ALL INGREDIENTS : READY BIODEGRADABLE

ENVIRONMENTALLY FRIENDLY (no classification is needed)

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