

The Brand New Approach for Rich-Foam

NOF CORPORATION
Oleo & Speciality Chemicals Div.

NONION® K-2100W

Compliant with JSQI

1 What is NONION® K-2100W?

Composition

Laureth-100	50%
RO- (C ₂ H ₄ O) ₁₀₀ -H	
RO:Lauryl alcohol residue	
Phenoxyethanol	1%
Tocopherol	0.02%
Water	to 100%

Concept

The Brand New Approach for Rich-Foam

Appearance

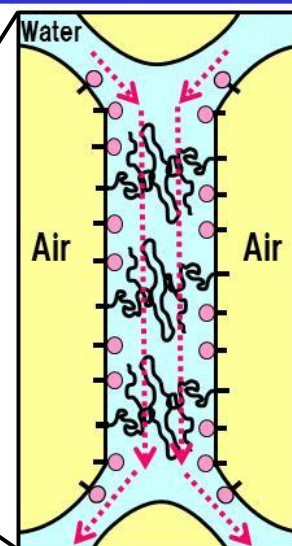
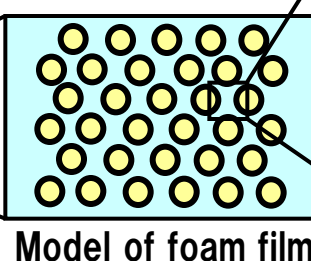
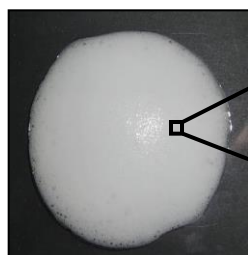
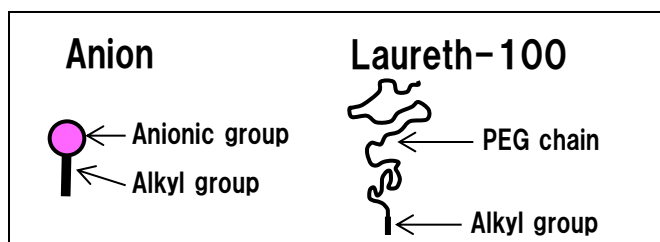
Clear liquid

INCI Name

Laureth-100, water, phenoxyethanol, tocopherol

2 Characteristics

- ① Very creamy foam
- ② Easy to use
- ③ Usable at wide pH range



Speed of drainage is slowed by NONION® K-2100W!

3 Measurement of foam stability

Formulation

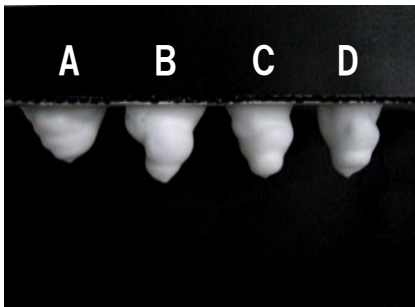
INCI	(Unit : Active wt%)			
	A	B	C	D
Laureth-100	-	6.0	-	-
PEG-75	-	-	6.0	-
Sodium methyl cocoyl taurate	1.2	1.2	1.2	4.2
Cocamidopropyl betaine	1.2	1.2	1.2	4.2
Citric acid	q. s.	q. s.	q. s.	q. s.
Water	Balance	Balance	Balance	Balance
Total	100	100	100	100
pH (as is, 25°C)	6.0	6.0	6.0	6.0

Condition

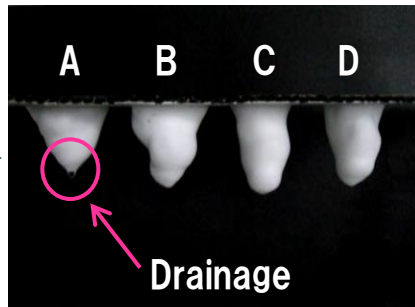
Test samples were discharged from foamer pumps (F2, 100mL, Daiwa Can Company), and put on a plate. And the plate was turned upside down.

Result

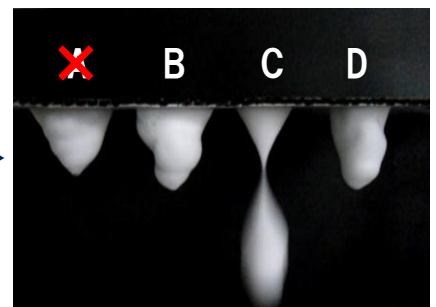
0s



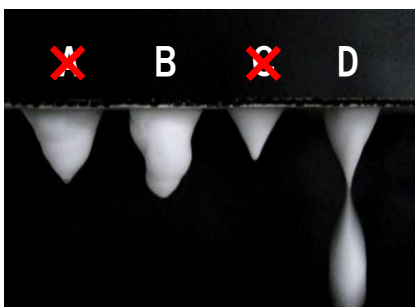
43s



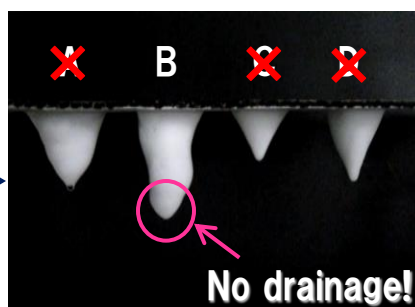
53s



58s



120s



A : BLANK
B : Laureth-100
C : PEG-75
D : Ionic surfactant

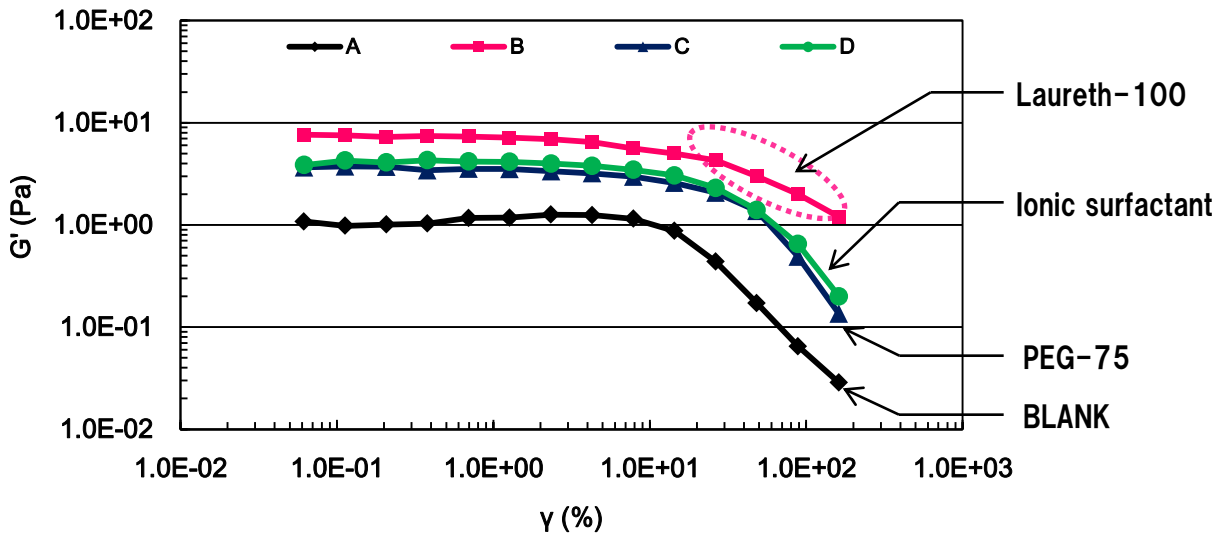
Laureth-100 provides Creamy & Stable Foam !

4 Measurement of foam strength

Condition

Test samples were discharged from foamer pumps (F2, 100mL, Daiwa Can Company). Then the storage modulus of foam was measured by rheometer (Instrument: Paar Physica MCR-300, angular frequency: 10 s^{-1} , Temperature: $25 \text{ }^\circ\text{C}$, cone-plate: dia.50 mm, 2°)

Result



Laureth-100 keeps foam creamy during washing !

5 Measurement of drainage

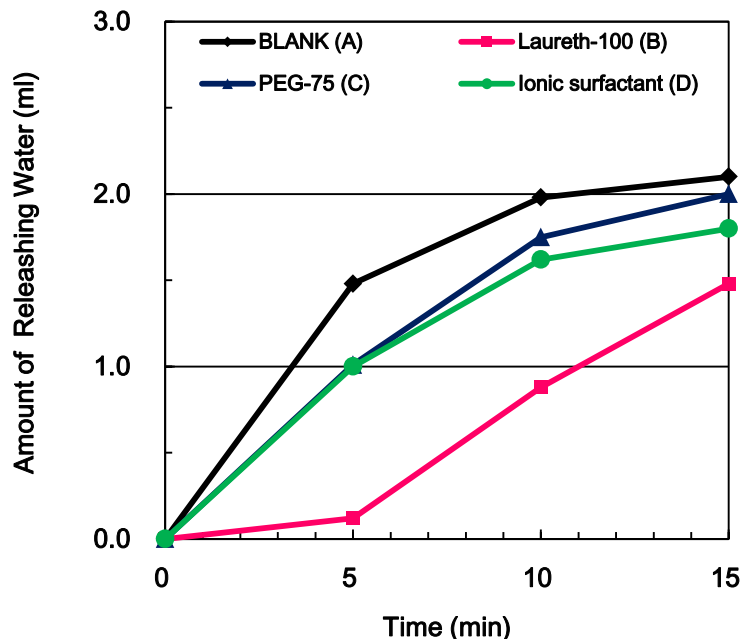
Condition

Discharge foam 3 times (ca.30ml) in the measuring flask and measure the amount of drainage after 5, 10, 15 minutes.



Amount of drainage

Result



6 Application

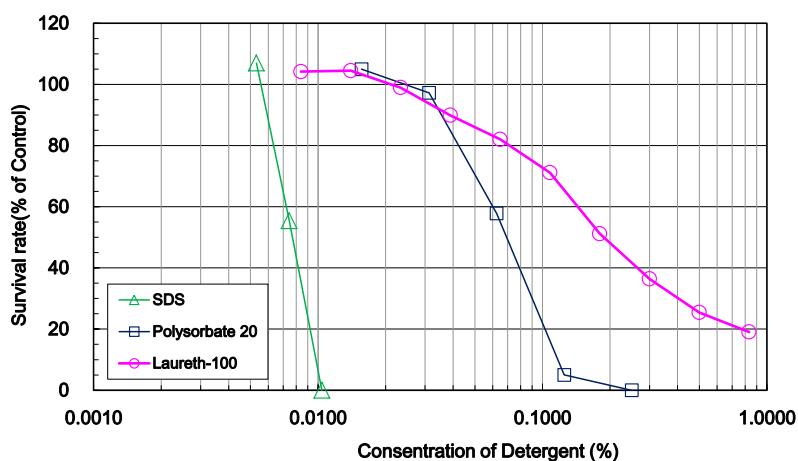
Foamy facial wash

NOF products	INCI (Active wt%)	wt%
NONION [®] K-2100W	See 1	10.0
DIAPON [®] K-SF	30% Sodium methyl cocoyl taurate	4.0
NISSAN ANON [®] BDF-R	30% Cocamidopropyl betaine	4.0
STAFOAM [™] DFC	Cocamide DEA / glycerin	2.0
RG-S	Glycerin	10.0
-	Citric acid	0.3
-	Water	Balance
Total		100
pH (as is, 25°C)		6.5

Put all ingredients into the beaker and stir to homogeneously at R.T.

7 Safety data (Laureth-100)

- Mutagenicity : Negative (Ames test)
- Human patch testing : Negative
(20%aq., 34 adults, occlusive patch 24hours)
- Skin sensitization : Negative
(Repeat Insult Patch Test, 20%aq., occlusive patch)
- Cytotoxicity test using rabbit corneal cells



Medium: DMEM + 10%FBS, Seeding density: 20,000cells/well, Exposure time:72hrs



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