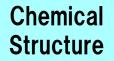
# Conditioning Booster

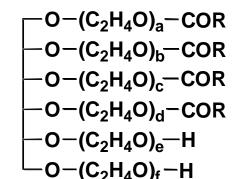
# UNIOX® ST-40E

Speciality Chemicals Div.

Compliant with JSQI

## 1 What is UNIOX® ST-40E?





R:Oleate residues

Added mole number of ethylene Oxide(EO) = a+b+c+d+e+f≒40

HLB=12.5

#### Concept

#### **Conditioning Booster**

### **Description**

Slightly yellowish Clear liquid

**INCI** 

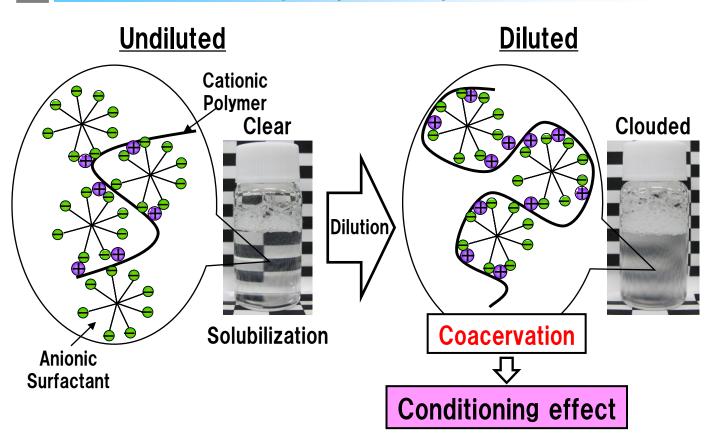
SORBETH-40 TETRAOLEATE

Chinese INCI

山梨醇聚醚-40 四油酸酯

#### 2 Characteristics

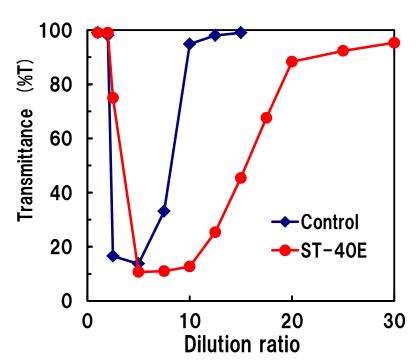
- 1 Enhances conditioning efficacy in body soap and shampoo.
- 2 Provides moist feeling of the skin after washing off.
- ③ Provides amino acid surfactant base shampoo with high viscosity.
- 4 Provides rich elastic foam, due to long PEG chain.
- ⑤ Low irritation and high safety.
- 6 Easy to handle.

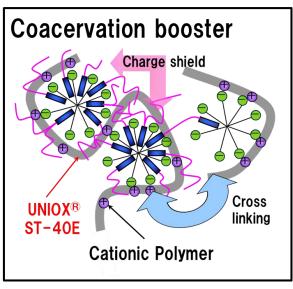


# 4 Coacervation foaming ability

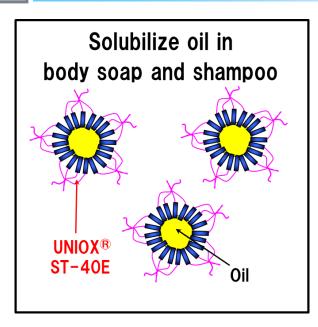
#### <Method>

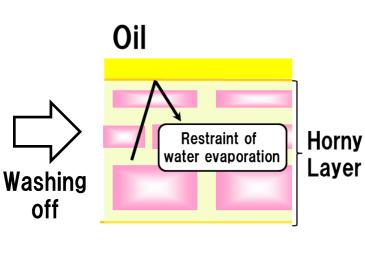
- Mixed anionic surfactant 7.0wt.%, amphoteric surfactant 5.0wt.%, nonionic surfactants 3.0wt% and cationized cellulose 0.5wt%, pH6.0 adjusted by citric acid.
- ② Diluted by tap water (40℃), then measure transmittance.





### Solubization ability





# Provides moist feeling to skin after washing off.

## 6 Application

#### Hair Shampoo (Clear type)

7000 mPa⋅s (25°C)

	Ingredients	INCI / Chemical Name	wt%	
A	-	WATER	balance	
	-	POLYQUATERNIUM-10	0.4	
В	NISSAN ANON™ BDF-R	COCAMIDE PROPYLY BETAIN, WATER	10.0	
	DIAPON® K-SG	SODIUM TAURINE COCOYL METHYLTAURATE, WATER	20.0	
	SOFTILT® AS-L	SODIUM LAUROYL METHYLAMINOPROPIONATE, WATER	20.0	
	UNISAFE™ PGML	PROPYLENE GLYCOL LAURATE	2.0	
	MACBIOBRIDE® MG-T	PEG-120 METHYLGLUCOSE TRIISOSTEARATE, WATER, TOCOPHEROL	1.0	
(	UNIOX® ST-40E	SORBETH-40 TETRAOLEATE	3.0	
С	-	Perfume	1.0	
D	-	CITRIC ACID	pH=6	
		Total	100	

#### [Procedure]

- 1. Weigh ingredients for phase A and mix uniformly at R.T.
- 2. Heat to 80±5°C and add phase B.
- 3. Cool down phase A+B under  $45\pm5$ °C.
- 4. Add phase C into phase A+B and mix uniformly at RT.

#### **Body Soap**

	Ingredients	INCI / Chemical Name	wt%
Α	-	WATER	balance
	-	HYDROXYETHYL CELLULOSE	0.60
В	NAA <sup>®</sup> -122	LAURIC ACID	10.00
	NAA <sup>®</sup> -142	MYRSTIC ACID	3.00
	NAA <sup>®</sup> -160	PARMITIC ACID	2.00
С	48% KOH	POTASSIUM HYDROXIDE (48%), WATER	7.90
	DIAPON® K-SF	SODIUM COCOYL METHYLTAURATE, WATER	4.00
_	-	POTASSIUM COCYL GLYCINATE, WATER	4.00
D	NISSAN ANON™ BDF-SF	COCAMIDE PROPYLY BETAIN, WATER	2.00
	-	PEG-20 PYTOSTEROL	1.00
_	UNIOX® ST-40E	SORBETH-40 TETRAOLEATE	4.00
E	MACADAMIA NUT OIL	MACADAMIA TERNIFOLIA SEED OIL	0.50
F	-	POLYQUATERNIUM-39	0.10
		Total	100

#### [Procedure]

- 1. Weigh ingredients for phase A and mix uniformly at R.T.
- 2. Heat to 80°C and add phase B.
- 3. Add phase C into phase A+B, and mix uniformly at  $80\pm5$ °C.
- 4. Add phase D and E and F into phase A+B+C, and mix uniformly at  $80\pm5$ °C.

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