

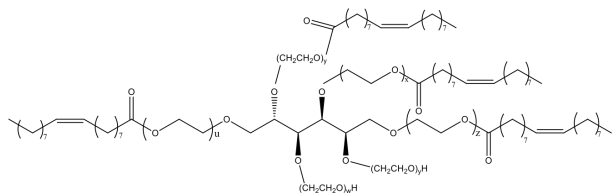


RHEODOL 430V

Transforming
Textures
Emulsifier

RHEODOL 430V

Sorbeth-30 Tetraoleate



(one example of a tetraester)
Where $w+x+y+z$ has an average value of 30

MAIN SPECIFICATIONS

- Colourless to pale yellow liquid
- 100% active matter
- Non-ionic emulsifier
- HLB= 10.5

Selecting the best emulsifier combination is technically difficult, in particular for cosmetic formulation containing a lot of oil such as cleansing oil (makeup remover).

RHEODOL 430V allows product development to be easy by its property of high compatibility with many types of oils.

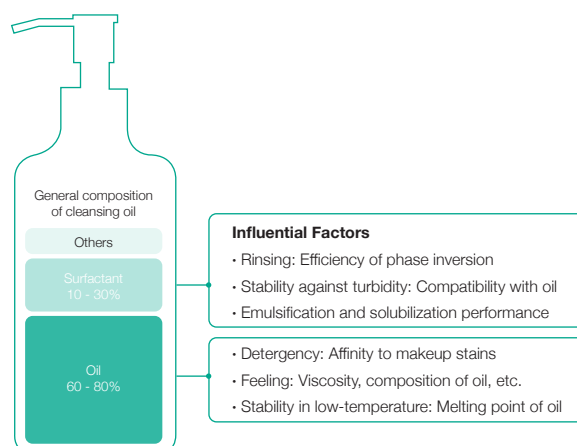
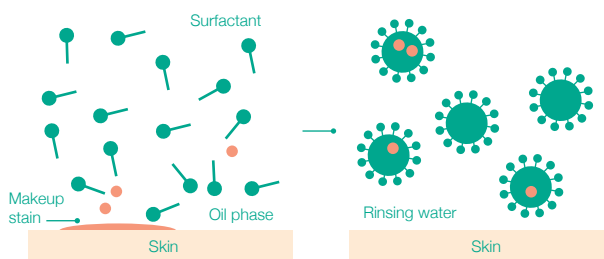
MAIN FEATURES

- Good emulsifying & solubilizing for a wide range of substances, high polar ester oils and plant-derived oils
- Emulsifier for oil-based cleansers. It allows oils to turn into milky white when in contact with water for easy rinse ability
- Suggested use level for oil-based cleanser: 10 - 20%

CLEANSING OIL

Cleansing oil removes dirt by dissolving makeup stains into oil and dispersing them in water by using surfactant property. During this process, emulsion phase changes from water-in-oil to oil-in-water.

Selection of oil is significant as it affects cleansing performance and texture to skin. It also characterizes product concept such as mildness and natural image. Main role of surfactant is phase inversion, therefore choice of surfactant affects rinsing ability.





COMPATIBILITY: SURFACTANT AND OIL

In the table, it is shown the appearance of the mixture of oils with surfactants. RHEODOL 430V is capable of transparently dissolving oils compared to Polysorbate-60 which is one of the emulsifiers that are used in oil cleansers.

Surfactant and oil which are typically used in cleansing oil have been mixed (2:8 ratio) and its appearance evaluated after stirring.

Emollient (8%)	RHEODOL 430V (2%)	Polysorbate-60 (2%)
Liquid Paraffin (xx cP)	X	X
Olive oil	✓	X
Sesame oil	✓	X
Jobba oil	✓	X
Macadamia oil	✓	X
Sunflower oil	✓	X
Argan oil	✓	✓

X Turbid & separation ✓ Clear

RHEODOL 430V shows excellent compatibility especially with polar oils such as vegetable oils.

CLEANSING OIL FACIAL CLEANSING

Ref. C-331 BOTANICAL CLEANSING OIL	%
COCONAD RK Tricaprylin	30
RHEODOL 430V Sorbeth-30 Tetraoleate	15
Olive Oil	55

This cleansing oil shows excellent emulsifier performance allowing to lift excess sebum, clean out clogged pores and remove dead skin and pollutants. By its transforming texture from clear oil to light emulsion, it is very easy to rinse.

CLEANSING OIL MAKE UP REMOVER

CLEANSING OIL WATERPROOF MAKE UP	%
COCONAD RK Tricaprylin	29.5
RHEODOL 430V Sorbeth-30 Tetraoleate	20.0
EXCEPARL HO Cetyl Octanoate	10.0
Isodecane	25.0
Squalane	15.0
Butylene Glycol	0.5

This cleansing oil, furthermore can remove very effectively waterproof make up for skin and lashes. By its transforming texture from clear oil to light emulsion, it is very easy to rinse.

Transforming Textures Emulsifier



1. Clear liquid

Apply some drops of the oil on the skin



2. Pleasant oily feel

Massage the oil cleanser on the skin



3. Light emulsion

The oily cleanser turns into milky when water is applied



4. Smooth Rinse-off

Easy rinse-off
No greasy residue
Moisturizing feel

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(Edited November 2020. EU version)

