



# Olivatis® 12C

INCI NAME	Olive Oil Polyglyceryl-6 Esters, Polyglyceryl-6 Pentaoleate
FUNCTION	W/O emulsifier
REACH STATUS	Polymer

**Olivatis® 12C** is an outstanding, non-ionic, PEG-free and palm-free, hot and cold processable W/O emulsifier.

Based on Polyglycerine-6 and Olive Fatty Acids, **Olivatis® 12C** is a green product, derived entirely from vegetable raw materials:

- Palm-free vegetable glycerine.
- Fatty acids extracted from Olive Oil.

**Olivatis® 12C** is COSMOS approved as a natural ingredient.



COSMOS  
APPROVED

## PHYSICAL / CHEMICAL PROPERTIES

Appearance:	viscous liquid, clear above 30°C
Color:	yellow to amber
Acid value:	15 max.
Saponification value:	160 - 180
Water:	1% max.
HLB:	4 - 5



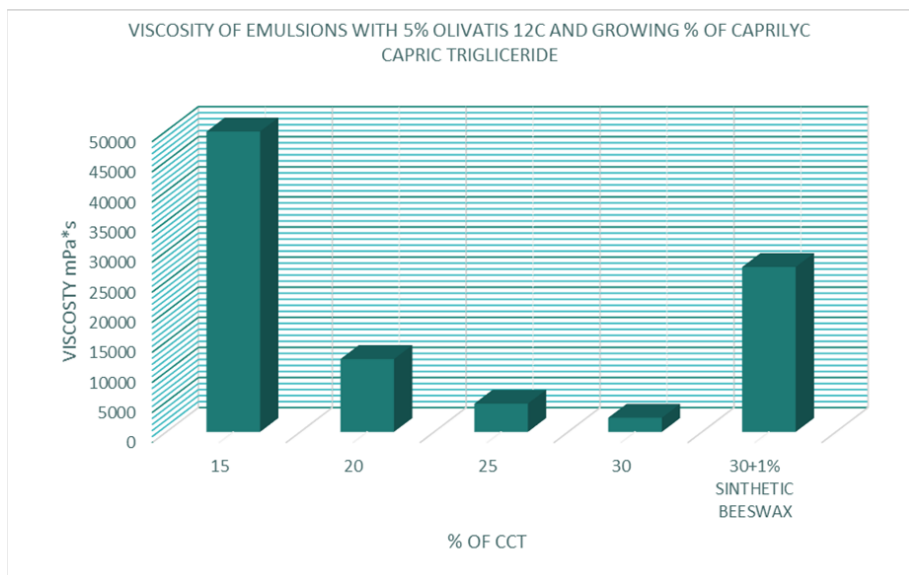
## RHEOLOGICAL BEHAVIOR AND USE TIPS

**Olivatis® 12C** is a broad range emulsifier and is effective with any kind of oil and ester, but is particularly recommended for emulsions with an oil phase between 15 - 30%.

If the oil phase concentration (outer phase) is increased, the viscosity of the formulation decreases. If a higher viscosity is needed, a common lipid gelling wax can be added to the formulation.

The addition of a popular electrolyte (the best one is a bivalent salt such as  $MgSO_4$ ) in the water phase (0,5% - 1,0%) helps stabilize water droplets in oil.

It is recommended to use **Olivatis® 12C** at concentrations ranging from 10% to 25% of the oil phase.



**Olivatis® 12C** must be added into the oil phase. Depending on the ingredients and the required viscosity, it is possible to make a hot or a cold process.

The procedure of mixing the oil and the water phase is very important as it has a great impact on the viscosity and overall stability of emulsions. The water phase should be added to the oil phase very slowly, under high shear mixing. In case of a hot process, water should be heated at the same temperature of the oil phase.

## OLIVATIS 12C IN SUN PRODUCTS

**Olivatis® 12C** gives outstanding water resistance to sun products.

It is suitable for all types of formulations including natural sunscreens with high concentrations of powders.

**Olivatis® 12C** is a very versatile emulsifier for sunscreen preparation, giving emulsions of excellent stability. It allows the preparation of shiny, not tacky and well spreadable emulsions, both in classic and mineral sunscreens.

The superficial film created by **Olivatis® 12C** is water resistant, but is light, almost unperceivable. **Olivatis 12C** maintains a pleasant level of skin hydration and leaves skin smooth and soft.



## OLIVATIS 12C IN MAKE-UP

In make-up products, **Olivatis® 12C** is a very effective dispersant of powders, from “fillers” such as talc and kaolin, to coloured iron oxides and lakes and improves the brilliance of colours in lip gloss and colour cosmetics, as well. **Olivatis® 12C** is also suitable for formulations with high quantity of silicon oils.

Thanks to the moisturizing and hydrating properties of **Olivatis® 12C**, waterproof make up have always a silky and soft touch without any sensation of oily skin.

### FEATURES AND PERFORMANCES OF OLIVATIS 12C AT A GLANCE

High stabilizing properties in W/O and W/S emulsions

Compatibility with physical and chemical sunscreens

Increase of the hydrating effect of make-up products

High powder dispersing ability

Hot and cold processable

Easy to use

### PROPERTIES OF EMULSIONS WITH OLIVATIS 12C

Fresh and light texture

High moisturizing and emollient properties

High waterproof properties

Suitable for sensitive skins

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