



NATURA-TEC CRYSTAL CREAM™

PROPERTIES

CRYSTAL CREAM is a skin-friendly and effective **O in W** emulsifier based on sucrose esters and olive unsaponifiables.

Sucrose esters are natural molecules well-known for their exceptionally delicate skin feel and their non-irritating activity.

Olive unsaponifiables, present a high affinity with human skin lipids, helping to hydrate and restore the cutaneous barrier. Due to the waxes naturally present, Olive unsaponifiables increase the emulsifying power.

Main parameters controlling stable emulsifying performance :

- ❖ Introduction in the oil phase
- ❖ Addition of the oil phase into the water phase at 75-80°C
- ❖ % of the oil phase
- ❖ Stability of the emulsion dependent on the acidity of the preservative used
- ❖ % of the emulsifier : 5% suggested without co-emulsifier

CRYSTAL CREAM emulsifier generates light touch emulsions with no need for co-emulsifier or thickening agent.

CRYSTAL CREAM emulsifier forms stable emulsions with different emollient systems and with high concentrations of the oil phase (from 5 to 40%).

Different viscosities are obtained by varying the concentration of the oil phase (from 5000 to 30000 mPa.s⁻¹).

CRYSTAL CREAM emulsifier forms liquid crystal structures in emulsion. Liquid crystals result from the organisation of molecules in a 3D network. This system increases stability of the emulsion by reducing the coalescence of oil droplets. In addition, the similarities with the stratum corneum structure create greater affinity with the skin allowing better transfer of actives and significant moisture retention capabilities.

COSMETIC APPLICATIONS

Men's care
Skincare for young skin
Body milk and lotions, moisturizing cream
Baby care products
Haircare after shampoo

TECHNICAL DATA

Appearance:	White to off-white flakes
HLB	9 ± 1
INCI	Sucrose Polystearate (and) Cetearyl Alcohol (and) Olea Europaea Oil Unsaponifiables