

Commercial Name	OLO 3D
INCI name	Stearalkonium Bentonite

Specifications

- **Function:** OLO 3D is a vegetable origin organic modified bentonite clay. OLO 3D is a rheological additive designed to create a gel structure (like a colloidal suspension) into an oil phase. OLO 3D is very versatile, it is suitable for low medium up to high polar systems.
- **Properties:**
 - Increase viscosity by creating a 3D structure
 - Improve stability and help to eliminate syneresis phenomena
 - Silky feeling
 - Provide thixotropy properties
 - Improve pigments dispersion and prevent settling
 - Help to stabilize W/O Emulsion by using a cold emulsification process
 - Create Thermostable « oil butter »
 - Increase water-resistance for make-up application
 - Eliminate oil migration
 - Enhance sun protection factor (SPF)
 - Reduce ultrafine TiO₂ related whitening effect
- **Available forms:**
 - superfine powder
 - Viscous gel: pre-dispersed in oil phase (on demand)
- **Incorporation rate:** 0,5-15%
- **Color:** beige
- **Odor:** characteristic
- **Solubility:** lipodispersible
- **No territorial restrictions known**

Storage conditions and Shelf Life

- Keep container tightly closed in dry and well-ventilated place
- Shelf Life: 24 months

Dispersion Process:

- How to use it: put the oil into the vessel. Then, add slowly OLO 3D under moderate speed. Finally increase the shear rate for a better dispersion (> 3000 rpm).
- Suitable dispersion equipment: high speed dissolvers, Ultra-Turrax mixers, bead- three-roll and colloidal mills.
- A chemical polar activator can be introduced to optimize gel formation depending on the nature of the oil phase.

Applications:

- Skin care products
- Sun Care products
- Lip products
- Make-up
 - Mascara
 - Foundations
 - Eye shadow

