DYNASAN® CrystalCONTROL L

Formulator's jewel for worry-free processes

Fully plant-based vegan polymorphic-free solid lipid, helping to control crystallization and coloring processes, while offering better moisturization, gliding and pay-off

in-cosmetics asia Innovation Zone Best Ingredient Award 2024 BRONZE FUNCTIONAL

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V3.0

IOI OLEOCHEMICAL

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ABOUT...

- Polymorphic-free solid lipid
- Controls (re-)crystallization of polymorphic ingredients and thus controls blooming in lipid based anhydrous systems
- Batch-to-batch consistent quality and white color
- Easy-to-work with (broadly compatible, flakes)
- No seasonal variation linked to inconsistent raw materials supply
- Leads to a significant improvement of skin moisturization from the first application
- Film-forming, diminishes transepidermal water loss (TEWL)

...SENSORIAL...

- High gliding for easy applications on lip, eye, face and body
- Pleasant pay-off for more vivid colors
- Creamy feel, melting on skin
- Anhydrous formulas with DYNASAN® CrystalCONTROL L show:
  - High gliding
  - High pay-off
  - Low stickiness
  - Low oiliness
  - Medium film-forming

...EMOTIONS

- 100 % renewable sources (RSPO MB Palm, Rapeseed, Castor & Sunflower)
- Natural Origin Index 1.0 (according to ISO 16128), COSMOS and NaTrue conform
- Vegan compatible
- Worry-free (re-)heating and cooling process – DYNASAN® CrystalCONTROL L always shows its stable, lowest energy form
- Less out-of-specification batches, increased production output, less production waste
- Contributes to a higher trust in brand

Blooming Effect

Blooming is an effect that occurs when certain solid components of a material mixture change their state of crystallinity at microscopic level leading to a change in macroscopic level observed as white spots.

Materials causing blooming are especially triglycerides like natural butters or waxes.

DYNASAN® CrystalCONTROL L helps to:
- Control crystallization in formulas
- Delay or even cancel blooming effect
- Allow worry-free heating & cooling processes

Surface Cracking

Polymorphic ingredients (e.g., natural waxes and butters) can cause unwanted cracking leading to an uneven surface with voids.

DYNASAN® CrystalCONTROL L helps to:
- Avoid cracking, even after storage
- Achieve a smooth, even surface

Consistent (White) Color

Lipsticks and balms with DYNASAN® CrystalCONTROL L show lighter color values and ease color matching process for color formulators

INCI
Polyglyceryl-3 Tetrastearate

DESCRIPTION
Natural ester based on polyglycerin and stearic acid

APPEARANCE, COLOR & ODOR
White solid (flakes) with characteristic odor

MELTING RANGE
58 – 64 °C

RECOMMENDED CONCENTRATION
5 – 20 % for sticks and solid cosmetics
2 – 10 % for balms

BENEFITS FOR...

...FORMULATOR
- Broadly compatible
- Helps controlling blooming effect
- Consistent batch color

...PRODUCTION
- Easy to manipulate
- More output and batch conformity
- Contributes to lower wastes

...BRAND
- Made entirely from plant-based materials
- Helps prevent blooming at customers
- Contributes to a higher trust in brand

...CONSUMER
- High gliding for easy applications
- Pleasant pay-off for more vivid colors
- Moisturizing, skin barrier protecting

NATURAL according to ISO 16128 NOI 1.0

NATRUE APPROVED

COSMOS APPROVED

Discover more online