

Quench Stick

Formula # 3/25-258/358-2

Features

- High amount of water in a hard stick.
- Structured water-in-oil emulsion.
- Chassis allows for inclusion of actives.

Skin Care

Emulsion

Natural / Clean

Vegan

Formula

Sunflower Wax

Natural wax extracted from sunflower seeds. Very high melting point and excellent structuring capabilities, increases stick structure and stability. Structurant. Usage level 1-15%.

Kester Wax K-24

Naturally derived wax ester of plant origin. Low melt point semi-solid, melts on body contact, provides cooling sensation. Adds slip, reduces greasy feel, dimethicone alternative. Usage level up to 50%.

Trade Name	INCI Name	%
<i>Phase A</i>		
Sunflower Wax ¹	Helianthus Annuus (Sunflower) Seed Wax	17.0
Kester Wax K-24 ¹	Lauryl Laurate	12.5
Cetiol CC ²	Dicaprylyl Carbonate	12.5
Isolan GPS ³	Polyglyceryl-4 Diisostearate/Polyhydroxystearate/Sebacate	3.0
Zinc Stearate ⁴	Zinc Stearate	0.5
<i>Phase B</i>		
Deionized Water	Aqua	47.5
Trehalose 100 ⁵	Trehalose	2.0
Optiphen ⁴	Phenoxyethanol, Caprylyl Glycol	1.0
Glycerin	Glycerin	3.0
Magnesium Sulfate	Magnesium Sulfate	1.0

Procedure

- Combine Phase A ingredients and heat to 85 °C.
- Combine Phase B ingredients and heat to 85 °C.
- Once both Phases are at temperature, add Phase B to Phase A and increase mixing speed.
- When emulsion is smooth, pour at 80-85 °C into appropriate containers. Keep mixer on during filling.

Stability Information:

Three months at 50 °C, three months at room temperature, three freeze/thaw cycles.

Supplier Information:

1. Koster Keunen, Inc.; 2. BASF; 3. Evonik; 4. Brenntag Specialties; 5. Trehalose

Looking for additional formulas? Try our Formula Selector Tool at: kosterkeunen.com/pcformulationguide