Refreshing Sunscreen Stick

Structured Water-In-Oil Sunscreen Emulsion. Mineral Sunscreen Only, Reef Safe, Non-Nano.

Light and Slick, Spreads Easily, Non-Whitening.

Formula # 2/24-10089/358-1

Skin Care

Emulsion

Traditional Ingredients

%

15.0

10.0

36.8

3.0

3.0

1.5

Sunscreen

Formula Synkos O-1070 Kester Wax K-24 **Kostol PGP** Synthetic wax that increases melt point Naturally derived wax ester of plant origin. Non-ionic o/w emulsifier or w/o coand provides hard structure in Low melt point semi-solid, melts on body emulsifier. Provides a light feel, without anhydrous formulas, mimics the properties contact, provides cooling sensation. Adds affecting viscosity. Designed for multiple of medium melt ozokerites. Economical, slip, reduces greasy feel, dimethicone formula types, wide pH tolerance. Usage versatile structurant. BHT free. alternative. Usage level up to 50%. level 2-6%. **Trade Name INCI** Name Phase A Synkos O-1070¹ Synthetic Wax Kester Wax K-24¹ Lauryl Laurate Purolan IHD² Isohexadecane Jeechem IPM³ Isopropyl Myristate UV Cut ZnO-68-CG⁴ Zinc Oxide, Caprylic/Capric Triglyceride, Polyhydroxystearic Acid

Cetvl PEG/PPG-10/1 Dimethicone

Kostol PGP ¹	Polyglyceryl-3 Stearate, Beheneth-5	2.0
Phase B		
Deionized Water	Aqua	23.6
Optiphen ⁶	Phenoxyethanol, Caprylyl Glycol	0.5
Jeechem BUGL ³	Butylene Glycol	3.0
Sodium Chloride	Sodium Chloride	0.8
Magnesium Sulfate	Magnesium Sulfate	0.8

Procedure

Abil EM 180⁵

Features

- Combine Phase A ingredients and mix well, while heating to 85 -90 °C. Homogenize, if necessary, to ensure ZnO is well dispersed.
- Combine Phase B ingredients and heat to 85 90 °C.
- Once both Phases are at temperature, add Phase B to Phase A and shear at high speed.
- Cool with propeller mixing to 70 75 °C and fill containers, continue agitation throughout filling.
- Allow to cool undisturbed.

Stability Information:

Three months at 45 $^\circ \rm C$, three months at room temperature, three freeze/thaw cycles.

Supplier Information:

Koster Keunen, Inc.; 2. Lanxess; 3. Jeen; 4. Grant Inc.; 5. Evonik;
Brenntag Specialties.

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

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We've Got A Wax For That[™]