

Water in Oil Inorganic Suncream with BENTONE GEL[®] IHD V and NANOX[®] 200

KR8/104

ELEMENTIS
SPECIALTIES

Description

A Water in Oil Inorganic Suncream containing BENTONE GEL[®] IHD V, rheological additive, and NANOX[®] 200, Ultrafine Zinc Oxide.

Advantages

The presence of BENTONE GEL[®] IHD V, rheological additive, in this system:

- Gives body, yet allows easy and even distribution, due to the thixotropic nature
- Produces a stable emulsion at increased temperatures
- Reinforces emulsion stability, and improves storage stability
- Enhances SPF to an in-vitro SPF of 20.29 +/- 4.81

Phase	Ingredient	Supplier	%w/w
A	Isohexadecane (and) Distearidimonium Hectorite (and) Propylene Carbonate BENTONE GEL[®] IHD V	ELEMENTIS Specialties	8.00
	Ethylhexyl Stearate (Tegosoft OS)	Evonik	13.50
	Isohexadecane	Bayer	8.00
	Isopropyl Myristate (Tegosoft M)	Evonik	5.00
	Cetyl PEG/PPG-10/1 Dimethicone (Abil EM90)	Evonik	1.80
	Polyglyceryl 3-Oleate (Isolan GO 33)	Evonik	1.75
B	Zinc Oxide NANOX[®] 200	ELEMENTIS Specialties	13.50
	Titanium Dioxide (T805)	Evonik	2.35
C	Deionized Water		41.60
	Sodium Chloride		0.75
	Magnesium Sulphate Heptahydrate		0.75
D	Butylene Glycol		3.00
	Preservative		qs

Procedure:

1. Heat combined Phase A to 75°C.
2. Transfer to a Silverson homogeniser and with mixing, gradually add Phase B to Phase A. Mix until fully dispersed.
3. In a separate container warm Phase C to 75°C.
4. Using high shear mixing (e.g. Silverson homogeniser), slowly add Phase C to Phase A + B.
5. Continue to mix for several minutes.
6. Transfer to propeller stirrer and commence cooling.
7. At 35°C, add Phase D to the batch.
8. Mix until uniform.

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