



ISO-Polymer Sunscreen Stick with Zinc Oxide

IGI ISO-Polymers can be used to make anhydrous gels suitable for hair care, lip balms, deodorants, sunscreens, insect repellants, and gel fragrances. The gel formulation will add a protective coating and can be formulated with many different emollients, natural oils and additives. This formulation demonstrates the use of ISO-Polymers to make a Sunscreen Stick with the addition of surface treated micro fine Zinc Oxide.

Ingredients	INCI Name	%
Phase A		
Polybutene	Polybutene	33.0
Jojoba Oil	Simmondsia Chinensis (Jojoba) Oil	28.5
ISO-P 100 HV	Poly (C20-28 Olefin)	22.0
ISO-P 165	Poly (C30-45 Olefin)	9.5
12 Hydroxy Stearic Acid	Hydroxystearic Acid	2.0
Phase B		
Zano 10 Plus*	Zinc Oxide (and) Triethoxycaprylylsilane	5.0

Expected SPF value would be 7-8.

Procedure:

1. Combine all ingredients in Phase A
2. Heat Phase A ingredients carefully until melted.
3. Mix until uniform.
4. Add Phase B with adequate mixing to obtain a complete dispersion.
5. Pour into containers.

* Zano 10 Plus is a product of Ultra Chemical.

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