

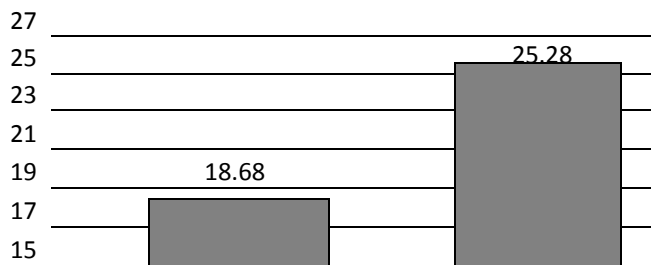
**SUNSCREEN LOTION WITH ZENIGLOSS**

	PHASE	INGREDIENT	FUNCTION	% BY WEIGHT	BATCH SIZE
1.		Water	Internal Phase	50.10	501.00
2.		Cetyl Hydroxyethylcellulose	Thickener	0.50	5.00
3.		Propylene Glycol	Solvent	2.00	20.00
4.		EDTA	Chelating Agent	0.20	2.00
5.		Lauryl PEG-12 Dimethicone	Emulsifier	5.00	50.00
6.		Sorbeth 2 Hexaoleate	Polar Ester	13.50	135.00
7.		Octinoxate	UV Absorber	7.50	75.00
8.		Octocrylene	UV Absorber	7.00	70.00
9.		Oxybenzone	UV Absorber	4.00	40.00
<b>10.</b>		<b>ZENIGLOSS (Castor Isostearate Succinate)</b>	<b>SPF Booster</b>	<b>10.00</b>	<b>100.00</b>
11.		Propyl Paraben	Preservative	0.10	1.00
12.		Methyl Paraben	Preservative	0.10	1.00
		Total		100.00	1000.00

Since the formula contains an all organic sunscreen system (no TiO2 or ZnO) the explanation is:

- In reviewing the solubility data on Zenigloss, it appears to be more compatible with Polar oils (IPM, OP, Safflower Oil). Based on the formula, Zenigloss may be providing a better solubility parameter matching to the oil phase (which does contain a Polar ester) containing the sunscreens, thereby making the sunscreens more efficient.
- The Zenigloss may be helping to increase film thickness (better than the cetyl dimethicone) thereby increasing optical path resulting in increase in SPF. Cetyl Dimethicone is the control compared with Zenigloss.

**SPF vs Additive**



Description	SPF	% Increase
Cetyl Dimethicone	18.68	0.0
Zenigloss	25.28	35.3

Formula courtesy of 

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