

## Protecting Sunscreen with Titanium Dioxide Dispersion (o/w) SPF 18-24

Phase A	Weight %	For 240 g / 8.5 oz
Warm Distilled Water	63.6 %	153 g / 5.5 oz
Xanthan Gum	0.5 %	1.2 g / 0.04 oz
Sorbitol	2 %	4.8 g / 0.2 oz
Aloe Vera	6 %	14.4 g / 0.5 oz
ETDA	0.1 %	0.25 g / 0.01oz (1/8 tsp)
<b>Phase B</b>		
Triglyceride	7 %	16.8 g / 0.6 oz
Jojoba Wax	3 %	7.2 g / 0.25 oz
Avocado Butter	2 %	4.8 g / 0.17 oz
L-Titanium Dioxide (liquid)	7 %	16.8 g / 0.6 oz
Emulsifying Wax	5 %	12 g / 0.4 oz
Dimethicone	1.5 %	3.6 g / 0.1 oz
Vitamin E Acetate	1 %	2.4 g / 0.1 oz
<b>Phase C</b>		
Paraben-DU	1 %	2.4 g / 0.1 oz
Fragrance	0.3 %	0.7 g / 0.03oz (16 drops)

### Method

Give phase A into a clean and disinfected glass beaker, sprinkle xanthan gum into it and stir with high speed. Heat phase B in a separate glass beaker to 150F/66C to melt the ingredients. Add phase B to phase A and stir until homogenous. After the temperature has cooled to 100F/40C add phase C to A/B and stir again.

### Properties

When using the micronized titanium dioxide dispersion higher SPF values can be achieved and it also has a high transparency on the skin.