



## CREAMY SMOOTH SPF-15

This soft, creamy sunscreen spreads easily. Olive-based emulsifiers create a pleasant application and after-feel. Creagel® Crystal TN is a transparent solvent for organic UV-filters with a light skin feel. Novatext® Velvet has a cushiony and rich feel. It reduces greasiness and shine, creating a matte effect for formulations.

### PHASE A

Deionized Water <sup>1</sup> (Water)	53.00%
Propylene Glycol <sup>1</sup> (Propylene Glycol)	2.00%
Glycerin <sup>1</sup> (Glycerin)	1.00%
Endisil® FS-193 <sup>1</sup> (PEG-12 Dimethicone)	5.00%
Dissolvine™ NA-2S <sup>1,2</sup> (Disodium EDTA)	0.05%

### PHASE B

Dedraflow® 5.3 <sup>1,3</sup> (Hydrogenated Polyisobutene (and) Dimethicone)	4.00%
Cetearyl Alcohol <sup>1</sup> (Cetearyl Alcohol)	1.00%
Ethal CSA-20 <sup>1</sup> (Cetareth-20)	1.00%
Endimulse® EGDS <sup>1</sup> (Glycol Distearate)	3.00%
Endicare® TN <sup>1</sup> (C12-15 Alkyl Benzoate)	1.50%
Endicare® AB <sup>1</sup> (Butyl Methoxydibenzoylmethane)	1.25%
Endicare® OMC <sup>1</sup> (Homosalate)	7.50%
Endicare® OS <sup>1</sup> (Ethylhexyl Salicylate)	5.00%
Endimate® OTX <sup>1</sup> (Octocrylene)	1.10%
Olivatis™ 13 <sup>1,4</sup> (Polyglyceryl-3 Cetearyl Ether Oliviate)	3.00%
Olivatis™ 17 <sup>1,4</sup> (Polyglyceryl-3 Oliviate Phosphate (and) Caprylyl/Capryl Glucoside)	3.00%

### PHASE C

Endicare® ETP 305 <sup>1</sup> (Polyacrylamide (and) C13-14 Isoparaffin (and) Laureth-7)	2.00%
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### PHASE D

Creagel® Crystal TN <sup>1,3</sup> (C12-15 Alkyl Benzoate (and) Ethylene/Propylene Copolymer)	1.00%
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### PHASE E

Ultrastarch ASO <sup>1,5</sup> (Aluminum Starch Octenylsuccinate)	2.00%
Novatext® Velvet <sup>1,3</sup> (Hydrogenated Polyisobutene (and) Polymethylsilsesquioxane (and) Vinyl Dimethicone/Methicone Silsesquioxane Crosspolymer (and) Ethylene/Propylene Copolymer)	1.00%

### PHASE F

Vitamin E Acetate <sup>1</sup> (Tocopherol Acetate)	0.50%
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### PHASE G

Sharomix DMP <sup>1,6</sup> (Diazolidinyl Urea (and) Methylparaben (and) Propylparaben (and) Propylene Glycol)	0.80%
Fragrance	0.30%



## Suppliers

<sup>1</sup>Coast Southwest, <sup>2</sup>Akzo Nobel Functional Chemicals LLC, <sup>3</sup>The Innovation Company, <sup>4</sup>Medolla Limited <sup>5</sup>Ultra Chemical Inc., <sup>6</sup>Sharon-Laboratories

## Properties

**pH:** 4.92

**Viscosity:** 10,380

**SPF:** Calculated SPF-15

## Procedure

**Phase A** – In main vessel, add Phase A, mix, and heat to 75°C. **Phase B** – In a separate vessel, add Phase B, mix, and heat to 75°C. At temperature, increase mixing speed and add phase B slowly to Phase A. Discontinue heat and cool to 60°C **Phase C** – Add Phase C to Phase AB with mixing at 500 rpm until uniform. **Phase D** – Add Phase D to Phase ABC with mixing at 500 RPM. The solution will become slightly viscous. Continue to cool to 40°C. **Phase E and F** – Add Phase E and F to Phase ABCD. **Phase G**– Add Phase G to Phase ABCDEF and mix until uniform. Cool to 25-30°C and transfer to holding vessel.