

Rich & Elegant Mineral Sunscreen Cream No. 667

	Wt. %	
A	Water	53.90
	VANATURAL [®] CA Bentonite Clay	1.00
	VANZAN [®] NF Xanthan Gum	0.50
	Glycerin	3.00
	Disodium EDTA	0.10
	Citric Acid Solution (50% w/w)	2.00
B	Polyglyceryl-4 Laurate/Succinate (and) Water (SP NatraGem [®] E145 NP MBAL-LQ-(MV) ¹)	2.46
	Sorbitan Laurate (Span [™] 20-LQ-(AP) ¹)	3.04
	Trimethylolpropane Tricaprylate/Tricaprate (Ritamollient [™] 3E ²)	4.00
	Caprylic/Capric Triglyceride (Neobee [®] M-5 Cosmetic ³)	2.00
	Propanediol (Zemea [®] Propanediol ⁴)	3.00
C	Zinc Oxide (and) Caprylic/Capric Triglyceride (and) Polyhydroxystearic Acid (and) Isostearic Acid (Solaveil [®] CZ-300 MBAL-LQ-(WD) ¹)	22.50
	Caprylic/Capric Triglyceride (and) Titanium Dioxide (and) Polyhydroxystearic Acid (and) Aluminum Stearate (and) Alumina (Solaveil [®] CT-300 MBAL-LQ-(WD) ¹)	2.50
D	Preservative	q.s.

Procedure: Slowly add the **VANATURAL**[®] **CA** and **VANZAN**[®] **NF** sequentially or as a dry blend to the water while stirring with a propeller mixer. Mix until fully hydrated. Add the rest of Part A ingredients and mix well after each. Combine the Part B ingredients and mix until homogeneous on propeller mixer. Add the Part C ingredients to Part B with mixing and mix until homogeneous after each. Slowly add Parts B+C to Part A with stirring on a propeller mixer and mix thoroughly. Then, homogenize the batch for ten minutes. Cool if necessary to < 30°C, with mixing on a propeller mixer. Add Part D (preservative) with mixing and mix until homogeneous. Check and adjust (if necessary) to pH 6.5 – 7.5.

RAW MATERIAL SUPPLIERS
¹Croda, Inc., Edison, NJ

²Rita Corporation, Crystal Lake, IL

³Stepan Company, Northfield, IL

⁴Primient Covation, Loudon, TN

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