Premium Lotion Base CM & Polymer SP Thickner

Our Warning! We have not tested every formulation that we list. This list is strictly for informational purposes and a guideline to various detergent, cosmetic and coating formulations. This information is provided without warranty of any kind or fitness for a particular use or purpose. You are encouraged to conduct your own tests. Read all labels and MSDS Sheets.

Finally, a great base product for your creams, lotions, body milks and mist. This lotion base has been developed using a different technology, so it's easy to use to create your recipes. Most lotion bases are pre-blends of water, oil, and emulsifying wax. Using emulsifying wax requires that the formula be heated to melt the wax and create the O/W bond. Those lotion bases tend to have a wax-like feel due to the emulsifying wax and often create drag on the skin and pilling after a second application. The viscosity (thickness) in your final product is adjusted by the amount of Polymer Thickener and additives you include in your final formulation. As you will see in the starter formulation, 1 gallon lotion base will produce up to 10 gallons of finished lotion.

Lotion Base CM is a totally cold process product because it does not contain waxes which need to be melted. The lotion base kit consists of two products: Lotion Base CM - a water-thin cream base and, Polymer SP - a cosmetic grade thickener, which has been pre-mixed with an emulsifier. No wax or alcohol!

Your product is simply made by mixing 10% Lotion Base CM with 90% water (Distilled), which makes for a very cost effective formulation. After these two ingredients are blended, you can add up to 5% vegetable oils. Next, the thickener concentrate, Polymer SP, is added to your blended lotion base at levels of 3% - 9% to achieve a viscosity from very thin, like a body mist, to very thick, like a night cream. Finally, incorporate your preservatives, color and fragrance. You've got a finished product in three easy steps!

Yield: 1 Gallon Lotion Base CM makes 10 gallons of lotion
1 Quart of Polymer SP will thicken 10 gallons of lotion

WE SUGGEST ALWAYS STARTING WITH STERILIZED METAL OR GLASS BOWLS & METAL MEASURING & MIXING TOOLS, WORKING ON A COUNTER SPACE CLEANED AND WIPED WITH A LIGHT SOLUTION OF BLEACH IN WATER.

We suggest using a digital scale to measure your components. Choose the batch size you wish to make from the table below. Set your scale for either ounce or gram measurements. Measure your ingredients in the quantities listed in either ounces or grams.

Remember, all measurements are listed by weight, not by fluid ounces.

Phase 1: Pre-mixing the Lotion Base CM

Ingredients:	Quart Batch		1/2 Gallon Batch		Gallon Batch	
	Oz	Grams	Oz	Grams	Oz	Grams
Water (Distilled water @ room temperature)	28	784	56	1568	112	3136
Lotion Base CM	3.25	91	6.5	182	13	364
Vegetable Oil (Sweet Almond, Olive, Apricot Kernel)	2	48	3.25	91	6.5	182

Mix these products together for 2-3 minutes using gentle agitation with whisks or mixing spoon. The oil and water will not emulsify, but you want the mixture to be well blended.

Phase 2: Preparing the Polymer SP

- Stir your container of Polymer SP well before portioning.
- Choose the amount of Polymer SP to add to your Phase 1 preparation, using the Consistency Table below to choose the end product you wish to make.

IMPORTANT: You can always add more Polymer SP to increase thickness, but if you start TOO THICK, you will need to prepare another Phase 1 batch to re-balance your desired viscosity. So if you are not sure, add increments of the Polymer SP to achieve your desired consistency.

PRODUCT CONSISTENCY TABLE (PER ONE GALLON BATCH)

3 oz Polymer SP	Very light lotion
5 oz Polymer SP	Normal lotion
7 oz Polymer SP	Very light cream
9 oz Polymer SP	Night cream

Phase 3: Blending Your Recipe

Slowly pour a stream of your Polymer SP portion into your Phase 1 base, while continuously blending (a stick blender works well). You will notice the lotion start to thicken after mixing for about 2 minutes. Continue mixing for a full 5 minutes to ensure that Polymer SP is completely dispersed to activate the emulsifier and the thickener.

When you've achieved your base consistency, add your preservative, color and fragrance, and blend well.
Your ready to package!