



## Sulfate Freedom! Shimmer Shampoos (SH-004)

You can create transparent, high viscosity shampoos in Sarcosinate and Glycinate surfactant systems without difficulty.

SorbiThix L-100 also has synergy with carbomer to suspend pearl pigments, beads or oil droplets.

**SorbiThix** is the best in the class of non-ionic associative thickeners. It brings high perfume, high clarity and high viscosity with good foaming ability to ANY surfactant systems on the market, even the most challenging glutamate surfactant systems.

### Specifications

- 🍎 Viscosity: 11,460 cP for Sarcosinate  
8,320 cP for Glycinate
- 🍎 pH: 5.5
- 🍎 50°C oven: 1 month stable
- 🍎 Freeze-Thaw: Passed 3 Cycles

### Processing Method

1. Set and heat water bath to 60-62 Celsius.
2. Add Phase A to a beaker and mix with spatula until uniform. Neutralize SF2 with 18% NaOH (for Glycinate only). Add Phase B and mix at 60-62 Celsius for 20-25 minutes (450-550 rpm).
3. Add Phase C. Premix Phase D<sub>1</sub> separately then add to beaker using water to rinse container. Let mix for another 15 minutes at 60-65 Celsius.
4. Add Phase D<sub>2</sub> then continue mixing for 5 minutes at 60-65 Celsius.
5. Cool the batch to below 40 Celsius and add Phase E. Let mix for another 5 minutes then adjust pH to 5.7-5.9.

PHASE	INCI NAME (TRADE NAME)	SARCOSINATE USAGE (WT%)	GLYCINATE USAGE (WT%)
<b>A</b>	Distilled Water	42.93	43.75
	Acrylates Crosspolymer-4 (Carbopol Aqua SF-2)	6.00	6.00
<b>B</b>	Alkyl Polyglucoside (Plantaren® 2000 N UP)	4.00	
	Cocamidopropyl Betaine (35% active)	11.42	15.7
	Sodium Cocoyl Isethionate	2.00	
	Potassium Cocoyl Glycinate (25% active ; Sinolion Eversoft-30K)		26.0
	Sodium Lauroyl Sarcosinate (25% active ; Sinolion S-12)	24.0	
	SorbiThix L-100	1.20	1.10
<b>C</b>	Dimethiconol (and) TEA-Dodecylbenzenesulfonate (50% active; Xiameter Mem-1784 Emulsion)	3.00	3.00
	Calcium Aluminum Borosilicate (and) Silica (and) Titanium Dioxide (and) Perfluorononyl Dimethicone/Methicone/Amodimethicone Crosspolymer (and) Tin Oxide (Ronastar Royal Sparkle, EMD)	0.05	0.05
<b>D<sub>1</sub></b>	Guar Hydroxypropyltrimonium Chloride (Jaguar Excel)	0.10	0.10
	Glycerin	2.00	2.00
	Distilled Water	1.00	1.00
<b>D<sub>2</sub></b>	Betaine (Genecare OSMS BA)	1.00	
<b>E</b>	Wild Currant & Orange Flower Perfume (Creative 8661)	1.00	1.00
	Disodium EDTA	0.10	0.10
	Citric acid to pH 5.5	Q.S.	Q.S.
	Preservative (DMDM Hydantoin)	0.20	0.20

Create Possibilities

EDITION: NOVEMBER 2019  
REF #:  
SARCOSINATE: 1108SINOSAR-SF2A  
GLYCINATE: 1108SINOGCK-SF2A