

Love Your Gray

Formulation 02234



Attributes

Smooth Feel
Provides Moisturization
Lightweight
Contains Moringa & Jojoba Oils
Yogurt Texture
Shine Enhancement
Increases Manageability, Easy to Style
For Gray Hair

Components

Phase	Order	Ingredient	INCI Name	Wt%	Supplier	Trade Name
A		DOWSIL™ SW-8005 C30 Resin Wax	C30-45 Alkyldimethylsilyl Polypropylsilsesquioxane	3		
A		C14-22 Alcohols (and) C12-20 Alkyl Glucoside	C14-22 Alcohols (and) C12-20 Alkyl Glucoside	3		
A		Glyceryl Stearate (and) PEG-100 Stearate	Glyceryl Stearate (and) PEG-100 Stearate	2		
A		Cetearyl Alcohol	Cetearyl Alcohol	0.5		
A		Aloe Vera Concentrate	Aloe Barbadensis Leaf Juice (and) Citric Acid (and) Sodium Benzoate (and) Potassium Sorbate	1		
A		Moringa Seed Oil	Moringa Oleifera Seed Oil	1		
A		Jojoba Seed Oil	Simmondsia Chinensis (Jojoba) Seed Oil	1		
A		Isohexadecane	Isohexadecane	9.85		
A		DOWSIL™ 2-2078 Fluid	Aminopropyl Phenyl Trimethicone	2		
B		Xanthan Gum	Xanthan Gum	0.05		
B		Water	Water	69.6		
B		VERSENE™ Na2 Crystal Chelating Agent	Disodium EDTA	0.1		
B		Aqua (and) Silk Amino Acids	Aqua (and) Silk Amino Acids	0.25		
B		Glycerin	Glycerin	2		
C		Fragrance	Fragrance	0.4		
C		Hydrolyzed Rice Protein	Hydrolyzed Rice Protein	0.05		
C		DOWSIL™ CE-8411 Smooth Plus Emulsion	Bis-Diisopropanolamino-PG-propyl Dimethicone/Bis-Isobutyl PEG-14 Copolymer (and) Polysorbate 20 (and) Butyloctanol	3		

Phase	Order	Ingredient	INCI Name	Wt%	Supplier	Trade Name
C		Phenoxyethanol (and) Ethylhexylglycerin	Phenoxyethanol (and) Ethylhexylglycerin	1		
C		Propylene Glycol (and) Water (and) C.I. 60730	Propylene Glycol (and) Water (and) C.I. 60730	0.2		

Procedure

Step	Process
1	Mix ingredients 1 and 2 in a beaker and heat to 85°C (~200 rpm). When the wax is dissolved, add ingredients 3, 4 and 5. Once all of the waxes are dissolved, add the remaining phase A ingredients (~400 rpm). Use a water bath to maintain temperature of the beaker.
2	Ensure the temperature of Phase B is at ~85°C, and add Phase B to Phase A while mixing at 700 rpm.
3	After phase B is added, shut off the heat and allow the temperature to decrease slowly, at a consistent rate until 40°C has been reached.
4	When temperature is below 40°C, add phase C ingredients one after the other to phase A+B, while mixing at ~700 rpm.
5	Pass through a high shear homogenizer for 30 to 60 seconds (per 100 grams) until formulation thickens.
6	Transfer formulation to final container. Targeted viscosity typically forms after the emulsion has been placed at room temperature for 24 hours.
7	Phase B: Weigh and Mix Xanthan Gum and glycerin first to dissolve the Xanthan Gum, add the remaining ingredients and heat to ~ 85 °C. Mix at ~ 400 rpm. Keep phase warm while mixing (~ 85°C) and cover the beaker. Take a weight of the beaker before and after heating; add the difference in water loss.

Stability

Stable for at least 2 months at room temperature and 40°C.

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