

# moisturizing color intensity shampoo (sulfate-free) - gorgeous

formula #: 12632-143

material #: 880790

ingredients (trade name   INCI name)		%w/w	supplier
phase a			
Deionized Water	Aqua (water)	42.0800	Local
Ashland™ 980 carbomer	Carbomer	0.2000	Ashland
phase b			
Benece™ E10M HPMC	Hydroxypropyl Methylcellulose	0.4000	Ashland
Jeechem EGDS	Glycol Distearate	0.5000	Jeen International
phase c			
Amphosol* CA	Cocamidopropyl Betaine	6.6700	Stepan
Jeechem 1770	Cocamidopropylamine Oxide	2.5000	Jeen International
Stepan-Mild* PCL	Sodium Methyl-2 Sulfolaurate (and) Disodium 2-Sulfolaurate and Sodium Lauryl Sulfoacetate - 23% active	30.0000	Stepan
phase d			
Deionized Water	Aqua (water)	10.5200	Local
N-Hance™ 3215 cationic guar	Guar Hydroxypropyltrimonium Chloride	0.4000	Ashland
phase e			
Disodium EDTA	Disodium EDTA	0.1000	Local
ChromoHance™ 113 conditioning polymer	Polyquaternium-113	1.0000	Ashland
Xiameter* MEM-1788 Emulsion	Dimethiconol (and) TEA-Dodecylbenzenesulfonate	4.0000	Dow Chemical
Optiphen™ 200 preservative	Phenoxyethanol (and) Caprylyl Glycol	0.5000	Ashland
Petal Blanche	Fragrance/Parfum	0.3800	Firmenich
Protasorb* L-20 N.F.	Polysorbate 20	0.7500	Protameen
Citric Acid (25% Aq. Solution)	Citric Acid	0.0000	Local
Sodium Hydroxide - 25% Solution	Sodium Hydroxide (Sodium Hydroxide - 25% Solution)	0.0000	Local
total		100.00	

## procedure

Add phase a ingredients in order with moderate mixing. Mix well without aerating the batch.

Heat batch to 70C.

At 70C, add phase b ingredients in order. Mix between each addition until solids are dispersed and batch is uniform.

Add phase c ingredients in order. Mix until batch is uniform.

Cool batch to 42C.

In a separate beaker, add phase d ingredients in order and mix well. Make sure N-Hance 3215 cationic guar is completely dispersed.

Add phase d to batch.

At 42C, add phase e ingredients in order. Mix well until batch is uniform.

Adjust pH as necessary.

## typical properties

description: White, viscous liquid

pH: 5.5 - 6.5

viscosity: 3000 - 9000 cps (Spindle RV4, 20 rpm)

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stability/challenge information: This formula passed standard stability protocol and micro challenge testing. The preservative system, however, has not been optimized to its lowest effective level.

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