

intensity premium hair strengthening shampoo

formula #: Z351-18A

material #: 885023

ingredients (trade name INCI name)		%w/w	supplier
phase a			
Deionized Water	Aqua (water)	26.9100	Local
N-Hance™ 3196 cationic guar	Guar Hydroxypropyltrimonium Chloride	0.2000	Ashland
Citric Acid	Citric Acid	0.0500	Local
Betadet* HR	Cocamidopropyl Betaine	6.6700	Kao Chemicals
Emal* 228D	Sodium Laureth Sulfate	28.3000	Kao Chemicals
Sodium Lauryl Sulfate (95%)	Sodium Lauryl Sulfate	6.3200	Local
phase b			
Deionized Water	Aqua (water)	20.0000	Local
Ashland™ 980 carbomer	Carbomer	0.4000	Ashland
Citric Acid	Citric Acid	0.0500	Local
phase c			
Ceraphyl™ 60 ester	Quaternium-22	0.5000	Ashland
Ceraphyl™ 41 ester	C12-15 Alkyl Lactate	0.1500	Ashland
Belsil* ADM 8301E	Amodimethicone/Morpholinomethyl Silsesquioxane Copolymer (and) Trideceth-5 and Glycerin	1.0000	Wacker
Xiameter* MEM-1788 Emulsion	Dimethiconol (and) TEA-Dodecylbenzenesulfonate	1.8000	Dow Chemical
Optiphen™ 200 preservative	Phenoxyethanol (and) Caprylyl Glycol	1.0000	Ashland
Lamesoft* Care	PEG-4 Distearyl Ether (and) Sodium Laureth Sulfate (and) Distearyl Ether (and) Dicaprylyl Ether	2.0000	BASF
Euperlan* PK 3000 AM	Glycol Distearate (and) Laureth-4 (and) Cocamidopropyl Betaine	3.0000	BASF
FiberHance™ BM solution	Hydroxypropylgluconamide (and) Hydroxypropylammonium Gluconate	1.0000	Ashland
Petal Blanche	Fragrance/Parfum	0.5000	Firmenich
phase d			
Citric Acid	Citric Acid	0.0500	Local
Sodium Chloride	Sodium Chloride	0.1000	Local
total		100.00	

procedure

1. phase a: Disperse N-Hance 3196 in water and mix until lump free. Add citric acid and mix until fully hydrated.
2. phase b: Disperse the carbomer in water and citric acid until lump free and add to phase a.
3. phase c: Add the ingredients in the order listed with good stirring. Add surfactants in the order listed.
4. phase d: Adjust the pH with 33wt% Sodium Hydroxide solution and Sodium Chloride to the desired pH and viscosity.

typical properties

description: creamy viscous liquid

pH: 4.5 - 5.0

viscosity: 6000 - 9000 mPas Brookfield LVT spindle #3, 12 rpm, 1 min @ 25C

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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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