

XSmooth-Care

Rinse-Off Conditioner

Formulation 4184



Attributes

- Reduces impact of UV on hair
- Enhances wet and dry combing
- Restores hydrophobicity
- Reduces static

Components

Phase	Order	Ingredient	INCI Name	Wt%	Supplier	Trade Name
a	1	CELLOSIZETM PCG-10 Hydroxyethyl Cellulose	Hydroxyethylcellulose	1.3	The Dow Chemical Company	CELLOSIZETM PCG-10 Hydroxyethyl Cellulose
a	2	Tetrasodium EDTA	Tetrasodium EDTA	0.2	The Dow Chemical Company	VERSENETM 220 Crystals
a	3	Water	Water	94		
b	4	Cetearyl Alcohol	Cetearyl Alcohol	1	Croda International	CrodacolTM CS-50
b	5	Glyceryl Stearate (and) PEG-100 Stearate	Glyceryl Stearate (and) PEG-100 Stearate	1	Croda International	ArlaceITM 165
b	6	DOWSILTM CE-7081 Smart Style	Silicone Quaternium-16/Glycidoxy Dimethicone Crosspolymer (and) Undeceth-11 (and) Undeceth-5	2	The Dow Chemical Company	DOWSILTM CE-7081 Smart Style
c	7	Phenoxyethanol (and) Methylisothiazolinone	Phenoxyethanol (and) Methylisothiazolinone	0.5	The Dow Chemical Company	NEOLONE PE

Procedure

Step	Process
1	Add water to 250 ml beaker, begin heating with hot plate while mixing. Sift in Cellosize and mix until it goes into solution (will be slightly cloudy in appearance).
2	Heat until 70°C (water will become clear and start to thicken with heating).
3	Increase the mixer speed as needed to maintain good turnover as the batch thickens, 900 rpm.
4	Add Phase B ingredients and and bring heat back to 70°C, mix 3 minutes.
5	Add Phase B ingredients and and bring heat back to 70°C, mix 3 minutes.
6	Remove hot plate and add cold water bath while continuing to mix until temp. is below 40°C.
7	Add Phase C ingredients and evaporated water. Mix 5 min.

Stability

None provided

Additional Note

DOWSIL™ CE-7081 Smart Style can be replaced with DOWSIL™ HMW 2220 Non Ionic Emulsion.

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