Crisp Dry Shampoo Foam
2906-91.A

Description

This formulation effectively refreshes hair without need for a shower while still offering great hair manageability, oil removal, and volume build. The formula includes hair conditioning agents CELQUAT® H-100 polymer and ARQUAD® PC SV-60 PG surfactant. ELFACOS® GT 282S rheology modifier is used to build foam quality and structure. NATRASORB® HFB starch acts as a sebum absorber while also imparting a crisp,clean feel to the hair and adding volume. The crispness can also be noticed in the hand as the foam gives that crisp sensation while being handled.

SHAKE WELL BEFORE USE

Formula

Trade Name	INCI Name	% w/w	Supplier
Phase 1 - Main Solution			
CELQUAT® H-100 polymer	Polyquaternium-4	1.50%	**AkzoNobel**
Deionized Water	Water (Aqua)	65.80%	Local
Phase 2 - Elfacos® GT 282S Solution			
Elfacos® GT 282S rheology modifier	Ceteareth-60 Myristyl Glycol	1.00%	**AkzoNobel**
Deionized Water	Water (Aqua)	4.00%	Local
Phase 3 - Additives			
Xiameter® OFX-0193 Fluid	PEG-12 Dimethicone	0.25%	Dow Corning Corp
Arquad® PC SV-60 PG surfactant (60% active)	Soytrimonium Chloride (and) Propylene Glycol	0.45%	**AkzoNobel**
Euxyl® PE 9010	Phenoxyethanol (and) Ethylhexylglycerin	0.75%	Schülke & Mayr GmbH
Phase 4 - Starch Dispersion			
Ethanol Anhydrous 40-B	SD Alcohol 40-B (Alcohol Denatured)	10.00%	Pharmco-Aaper
NATRASORB® HFB starch	Aluminum Starch Octenylsuccinate (and) Acrylates Copolymer (and) Magnesium Carbonate	6.00%	**AkzoNobel**
Magnesium Stearate NF FCC Kosher	Magnesium Stearate	0.25%	Universal Preserv-A-Chem, Inc.
Phase 5 - Propellant			
A-46	Isobutane (and) Propane	10.00%	Local
	Total:	**100.00%**	

Procedure

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Into the main mixing vessel charge all the water in Phase 1. Begin mixing with propeller agitation pulling a vortex two thirds of the way down the mixing shaft. Slowly sift in to the side of the vortex the CELQUAT® H-100 polymer and allow to hydrate. While Phase 1 is hydrating, prepare Phase 2.

While Phase 1 is hydrating, charge a separate vessel with the water required in Phase 2 and begin heating to 70°C. Once Phase 2 is at temperature, add the Elfacos® GT 282S rheology modifier and allow to melt. Once melted and Phase 2 is completely homogenous, allow the mixture to cool; after cooling, the phase should appear clear and gel like. Then carefully add Phase 2 to Phase 1 and allow to mix well before proceeding to Phase 3.

Once Phase 2 has been completely incorporated, add all the ingredients of Phase 3 to the main mixing vessel one at a time, allowing each to mix well between additions.

Into a separate mixing vessel, charge all the ethanol contained in Phase 4 and disperse the NATRASORB® HFB starch and stearate with strong agitation. Once fully dispersed, add Phase 4 to the main mixing vessel.

Fill cans with concentrate, crimp, and then charge with propellant. It is very important to maintain mixing with strong agitiation during the filling of cans as the starches are only dispersed in the concentrate and will quickly settle out of solution.

Properties

Foam Bloom Rate	1	
Foam Strength	2	
Foam Density	0.031 - 0.041	g/mL

Packaging

Brand: Aptar
Sample: VX-81 203MM DTL
Housing: VX-VX BARB ARIANE---1,57-0,00-PA
Valve Stem: VX80-4,03-1-0,51-8,70-NATU-1
Valve Gasket: B175-2,54-8,00-1,14-BUNA 15
Spring: VX80--INOX---STD 302 SS
Valve Fixture: SUB-AL-CLCL-DR-32,64--S-GA
Dip Tube: PE-NATU-4,07-3,10-RL----.122 ID

Sample: WMS-2
Actuator: WREN MS-PP-8,0-3,40-WHIT-SHNY--MOUS
Cap: S25-25,50-PP-NATU--SHNY----S25 CAP

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