

Super Cleansing Foam

2906-91.E

Description

This cold-processable 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. A blend of DRY-FLO® TS starch and NATRASORB® HFB starch provides a significant oil absorber while also imparting a smooth, clean feeling to the hair and also building volume.

SHAKE WELL BEFORE USE

Formula

Trade Name	INCI Name	% w/w	Supplier
Phase 1 - Main Solution			
CELQUAT® H-100 polymer	Polyquaternium-4	1.00%	AkzoNobel
Deionized Water	Water (Aqua)	60.55%	Local
Crodateric CAB 30	Cocamidopropyl betaine (and) water	0.50%	Croda, Inc.
Phase 2 - 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 3 - Cetearyl/Starch Dispersion			
Ethanol Anhydrous 40-B	SD Alcohol 40-B (Alcohol Denatured)	15.00%	Pharmco-Aaper
Crodacol-CS-50	Cetearyl Alcohol	1.00%	Croda, Inc.
DRY-FLO® TS starch	Tapioca Starch (and) Polymethylsilsesquioxane	5.00%	AkzoNobel
NATRASORB® HFB starch	Aluminum Starch Octenylsuccinate (and) Acrylates Copolymer (and) Magnesium Carbonate	5.00%	AkzoNobel
Magnesium Stearate NF FCC Kosher	Magnesium Stearate	0.50%	Universal Preserv-A-Chem, Inc.
Phase 4 - Propellant			
A-46	Isobutane (and) Propane	7.50%	Local
DEMEON® D	Dimethyl Ether	2.50%	AkzoNobel
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. Once hydrated, add the Crodateric and allow time to mix sufficiently before continuing the Phase 2.

Once Phase 1 has been completely incorporated, add all the ingredients of Phase 2 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 3 and add the Crodacol CS-50 and set to with strong agitation. Once the Crodacol has mixed into solution, move the vessel to a high shear homogenizer and add the stearate, allowing to disperse before mixing only half of the DRY-FLO® TS starch and then the NATRASORB® HFB starch. After the mixture has dispersed, carefully add Phase 3 to the main mixing vessel and then add the remaining starches.

Fill cans with concentrate, crimp, and then charge with propellant. It is very important to maintain mixing with strong agitation 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	1	
Foam Density	0.029 - 0.039	g/mL

Packaging

Brand: Precision
Stem: 024 S90 (630 EQL) SPLINED BODY (PN# 04-5060-06-0000)
Stem Gasket: S90 BUTYL U133 (PN# 05-5250-00-0000)
Spring: VALVE SPRING 020 S/S (PN# 06-6040-00-0000)
Body: S90 INVERTED W/TAILOPIECE 4 SLOT 360 DP (PN# 07-6954-00-0000)
Mounting Cup: ALUM SPH EPON T/B UND CUT GASKET (PN# 32-8990-18-0000)
Dip Tube: NO DIP TUBE (PN# 09-0000-00-0000)

Actuator: WHITE GOTHIC SPOUT (PN# 02-1591-00-0343)

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