



Formulation

Name	ULTRA FABRIC SOFTENER DISPERSION USING 15% SOLIDS STEPANTEX® VT-90	
No.	1130	
Description	This 15%-solids fabric softener is for use in the rinse cycle of the wash load. It is non-yellowing and provides excellent softening and static control while maintaining the rewet properties of the fabric.	
Formulation	INGREDIENTS:	% by Weight Functionality
	Deionized Water	82.53 Carrier
	STEPANTEX® VT-90	16.67 Softener
	Calcium Chloride (20% by wt. solution)	0.75 Viscosity Adjuster
	Ucarcide 250M	q.s.* Preservative
	Dye, Fragrance, Preservative	q.s. Additives
	Total	100.00
Procedure	<p>1. Charge Deionized Water at 55°C/131°F or heat it up to this temperature in the vessel. Dye can be added at this time.</p> <p>2. While mixing, slowly add STEPANTEX® VT-90 (which has been previously heated to a temperature of 50°C/122°F) to the water and agitate for 10 minutes. The esterquat will disperse into a thick cream-like consistency.</p> <p>3. Add Calcium Chloride solution to reduce viscosity and stabilize the system. Continue mixing for another 20 minutes.</p> <p>4. When the temperature has reached 35°C/95°F, charge Preservative and any other ingredients (e.g. Fragrance, optical brightener, etc.).</p> <p>* Use amount recommended by supplier.</p>	
Physical Properties	Appearance at 25°C/77°F	Opaque liquid
	pH, as is	3.0
	Viscosity at 25°C/77°F, cPs (Brookfield DV-II+ Pro)	Water-like
	Solids, %	15.0
	Density, Lb/gal	8.34
Storage/Stability	4 weeks at 5°C/41°F	Stable
	4 weeks at 40°C/104°F	Stable
	4 weeks at 50°C/122°F	Stable
Instructions for Use	Use 1 oz. in rinse cycle for a regular wash load (4–6 lbs).	
External Comment	<p>For a more viscous product, the calcium chloride amount can be reduced. Final viscosity may vary, depending on the processing temperature, mixing rate, and time. Fragrance and other ingredients may also affect this parameter. Sodium chloride can also be used to adjust viscosity. Monitoring viscosity of the final fabric softener product at the storage temperature requirements is recommended.; Marketing Notes: STEPANATEX® VT-90 is an approved ingredient on www.cleangredients.org. For further information, visit our website or www.cleangredients.org. BCI</p>	

= 81. Total BCI (Biorenewable Carbon Index) was calculated only for the Stepan surfactants used in this formulation.

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Additional
Assistance

For applications or product handling assistance, call our Technical Service Department at 1-800-745-7837 (U.S.) or 011-334-76-505-100 (Europe).
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Revision Date: Publication Date: 08/18/2010 © 2015, Stepan Company. All rights reserved.