



Formulation

Name	PREMIUM ULTRA FABRIC SOFTENER USING STEPANTEX® VT 90	
No.	998	
Description	This 20%-solids ultra fabric softener is for use in the rinse cycle of the wash load. It provides excellent softening and static control while maintaining the rewet properties of the fabric.	
Formulation	INGREDIENTS:	<u>% by Weight</u>
	STEPANTEX® VT-90	22.22
	Calcium chloride (33% solution)	1.60
	Water	76.18
	Preservative	Use suppliers recommended dosage
	Total	100.00
Procedure	Charge 55°C / 130°F water. Slowly start adding STEPANTEX® VT 90 that has been heated to 50°C / 122°F to the water while mixing. Try to add at least 65%-75% of the overall quat. Continue mixing for 30 minutes, allowing quat to disperse into thick cream. Add 1/3 –1/2 of the salt solution to reduce the viscosity of the dispersion. Add remaining quat and allow to mix an additional 30 minutes. Add remaining salt solution to reach desired viscosity. Add preservative and any other additives (fragrance, optical brightener, etc.), unless otherwise directed by additive manufacturer. Additional salt may be necessary to reach desired viscosity. Stepan does not recommend adding more than 1%%-1.5% active salt to the system.	
Physical Properties	Appearance at 25°C/77°F	Opaque Liquid
	pH, as is	2.5 - 4.0
	Viscosity at 25°C, cps	83
	Solids, %	20.0
	Density, lbs/gal	8.34
Storage/Stability	Viscosity after 4 weeks at 5°C, cps	180
	Viscosity after 4 weeks at 40°C	85
	Viscosity after 4 weeks at 50°C	105
Instructions for Use	Use 1 oz. in rinse cycle per normal wash load.	
	Excellent softening and static control while maintaining the rewet properties of the fabric.	
External Comment	The final viscosity of a liquid fabric softener depends upon the temperature, mixing rate, and mix time. Additives and fragrances may affect the final viscosity. Sodium chloride can also be used to reduce viscosity. The viscosities listed above are those obtained in the lab.	
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For	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).	

Additional
Assistance

For ordering assistance, call our Account Service Department at 1-800-457-7673.

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Revision Date: 04/25/2007 Origination Date: © 2007, Stepan Company. All rights reserved.