



# Formulation

Name	<b>PREMIUM ULTRA FABRIC SOFTENER USING STEPANTEX® VT 90</b>	
No.	999	
Description	This 24%-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	<u>INGREDIENTS:</u>	<u>% by Weight</u>
	Water	71.33
	STEPANTEX® VT-90	26.67
	Calcium chloride (25% solution)	2.0
	Preservative	q.s.
	<b>Total</b>	<b>100.00</b>
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.) as recommended by supplier, 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	70
	Solids, %	24.0
	Density, lbs/gal	8.34
Storage/Stability	Viscosity after 4 weeks at 5°C, cps	90
	Viscosity after 4 weeks at 40°C	80
	Viscosity after 4 weeks at 50°C	75
	Dispersion is NOT Freeze/thaw stable	
Instructions for Use	Use 1 oz. in rinse cycle per normal wash load.	
	Top-tier softening performance with good static control.	
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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