



# Formulation

Name	<b>ULTRA FABRIC SOFTENER DISPERSION USING 15% SOLIDS STEPANTEX® SP-90</b>	
No.	1132	
Description	This 15% solids, palm-derived 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	<u>INGREDIENTS:</u>	<u>% by Weight</u> <u>Functionality</u>
	Deionized Water	82.98 Carrier
	STEPANTEX® SP-90	16.67 Softener
	Calcium Chloride, 20% by wt. solution	0.35 Viscosity Adjuster
	Preservative	q.s. Preservative
	Dye, Fragrance, Other Ingredients	q.s. Additives
	<b>Total</b>	<b>100.00</b>
Procedure	<ol style="list-style-type: none"> <li>1. Charge Deionized Water at 45°C/113°F or heat it to this temperature in the vessel. Dye can be added at this time.</li> <li>2. Heat STEPANTEX® SP90 to 45°C/113°F. While mixing, slowly add the heated STEPANTEX® SP90 to the water and agitate for 10 minutes. The esterquat will disperse into a thick cream.</li> <li>3. Add Calcium Chloride solution to reduce viscosity and stabilize the system. Continue mixing for another 20 minutes.</li> <li>4. When the temperature has reached 35°C/95°F, charge Preservative, Fragrance, any Other Ingredients using amount recommended by supplier.</li> </ol>	
Physical Properties	Appearance at 25°C/77°F	Opaque liquid
	pH, as is	2.61
	Viscosity at 25°C/77°F, cps (Brookfield DV-II+ Pro)	40.00
	Solids, %	15.00
	Density, lbs/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 upon 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: BCI = 81. Total Biorenewable Carbon Index (BCI) was calculated only for the Stepan surfactants used in this formulation. For further information on Stepan's BCI, visit <a href="http://www.stepan.com">www.stepan.com</a>.</p>	

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Revision Date: 04/21/2016    Publication Date: 09/12/2012    © 2016, Stepan Company. All rights reserved.