



Formulation

Name	REGULAR FABRIC SOFTENER DISPERSION USING 5% SOLIDS STEPANTEX® SP-90	
No.	1131	
Description	This 5% 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	94.44 Carrier
	STEPANTEX® SP-90	5.56 Softener
	Preservative	q.s. Preservative
	Polymer	q.s. Thickener
	Dye, Fragrance, Other Ingredients	q.s. Additives
	Total	100.00
Procedure	<ol style="list-style-type: none"> 1. Charge Deionized Water at 35°C/95°F or heat it up to this temperature in the vessel. Dye can be added at this time. 2. Heat STEPANTEX® SP90 to 45°C/113°F. While mixing, slowly add the heated STEPANTEX® SP90 to the water. 3. Mix for 15 minutes or until dispersion is opaque and homogeneous. 4. Add Preservative, Fragrance, and Other Ingredients, using amount recommended by the supplier. 	
Physical Properties	Appearance at 25°C/77°F	Opaque liquid
	pH, as is	2.75
	Viscosity at 25°C/77°F, cps (Brookfield DV-II+ Pro)	24.00
	Solids, %	5.00
	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 3 oz. in rinse cycle for a regular wash load (4-6 lbs).	
External Comment	For a more viscous product, use a thickener that is compatible with cationic systems at pH < 4, at a level and processing recommended by its supplier. Final viscosity may vary depending upon the processing temperature, mixing rate, and time. Fragrance and other ingredients may also affect this parameter. Monitoring viscosity of the final fabric softener product at 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 www.stepan.com .	
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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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