



Formulation

Name	FLUID FABRIC SOFTENER WITH 18% ACTIVE BASED ON STEPANTEX® VK-90	
No.	1037	
Description	This 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>
	=== Phase 1 ===	
	Tap Water	46.7
	Dye	q.s.
	Ammonium Chloride (25% aqueous)	0.4
	STEPANTEX® VK-90	20
	=== Phase 2 ===	
	Tap Water	31.6
	Calcium Chloride (25% aqueous)	0.5
	Fragrance	0.8
	Total	100.0
Procedure	Load Tap Water and Dye from Phase 1 into the reactor and bring them to 50°C. Add the Ammonium Chloride. While stirring, add STEPANTEX® VK-90 (previously melted and mixed until homogeneous). Stir until the blend (Tap Water, Ammonium Chloride, and STEPANTEX® VK-90) is homogeneous and has a white, shiny, and smooth appearance. Slowly add cold water and mix until homogeneous. At 35°C, add the Calcium Chloride solution from Phase 2. The final viscosity can be adjusted by a small variation of the Calcium Chloride content. Reduce the stirring speed as soon as the viscosity decreases to avoid intake of air. Cool down to 30°C and add Fragrance. Product is ready to be packaged.	
Physical Properties	Appearance at 25°C	Opaque liquid
	pH, as is	2.8 - 3.0
Storage/ Stability	1 month at 50°C	stable
	2 months at 40°C	stable
Instructions for Use	Add 25 mL to the final rinse.	
External Comment	The viscosity is about 40 mPa.s (viscometer Contraves TV2) and 50 mPa.s (Brookfield RVT M4/V100). The viscosity can be affected by the type and level of fragrance. Note: This operating procedure is used when customers are not equipped with cool-down systems. Formulation is impacted by water hardness.	
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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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Stepan Company
B.P. 127
38320 Voreppe, France
Telephone 011-334-76-505-100

Revision Date: 04/25/2007 Origination Date: 11/24/2004 © 2007, Stepan Company. All rights reserved.