



Formulation

Name	FLUID FABRIC SOFTENER WITH 17% ACTIVE BASED ON STEPANQUAT® GA 90	
No.	1026	
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:	% by Weight
	Tap Water	80
	STEPANQUAT® GA 90	18.9
	Calcium Chloride (25% aqueous)	0.4
	Fragrance	0.7
	Dye	q.s.
	Total	100.0
Procedure	Load Tap Water (50°C) and Dye into the reactor. While stirring, add STEPANQUAT® GA 90 at 50°C (previously melted and mixed until homogeneous). Stir until the blend (Tap Water, Dye, and STEPANQUAT® GA 90) is homogeneous and has a white, shiny, and smooth appearance. Cool to 35°C while maintaining agitation. Add the Calcium Chloride solution. The blend becomes fluid quickly. Continue cooling to 30°C. 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 26.5 mL to the final rinse.	
External Comment	The viscosity is about 60mPa.s (viscometer Contraves TV2) and 120 mPa.s (Brookfield RVT M4/V100). The viscosity can be affected by the type and level of fragrance. Formulation is impacted by water hardness.	
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