Name: FLUID FABRIC SOFTENER WITH 11% ACTIVE BASED ON STEPANTEX® VK-90
No.: 1036
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

<table>
<thead>
<tr>
<th>Phase 1</th>
<th>Tap Water</th>
<th>STEPANTEX® VK-90</th>
<th>Dye</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>50</td>
<td>12.2</td>
<td>q.s.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Phase 2</th>
<th>Tap Water</th>
<th>Calcium Chloride (25% aqueous)</th>
<th>Fragrance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>37.1</td>
<td>0.2</td>
<td>0.5</td>
</tr>
</tbody>
</table>

Total: 100.0

Procedure:

Load Tap Water and Dye from Phase 1 into the reactor and bring them to 50°C. While stirring, add STEPANTEX® VK-90 at 50°C (previously melted and mixed until homogeneous). Stir until the blend (Tap Water and STEPANTEX® VK-90) is homogeneous and has a white, shiny, and smooth appearance. Progressively add water from Phase 2 at 20°C while agitating. Mix until homogeneous. At 35°C, add the Calcium Chloride solution. The blend (Tap Water, STEPANTEX® VK-90, and Calcium Chloride) will become fluid quickly. Continue cooling and add Fragrance at 30°C. Product is ready to be packaged.

Physical Properties:

Appearance at 25°C: Opaque liquid
pH, as is: 3.0

Storage/Stability:

1 month at 50°C: stable
2 months at 40°C: stable

Instructions for Use:

Add 40 mL to the final rinse.

External Comment:

The viscosity is about 36 mPa.s (viscometer Contraves TV2) and 44 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 applications or product handling assistance, call our Technical Service Department at 1-800-745-7837 (U.S.) or 011-334-76-505-100 (Europe).
For ordering assistance, call our Account Service Department at 1-800-457-7673.

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