

Name | CLEAR SOLID DEODORANT STICK

No. 1246

Description | NINOL® CAA provides fragrance solubilization while maintaining clarity in the formulation.

Formulation INGREDIENTS: % by Weight Functionality

Deionized Water q.s. to 100.00 Diluent Propylene Glycol 63.00 Solvent Sodium Stearate OP-200V (Hallstar) Sodium Stearate 8.00 Thickener

NINOL® CAA

Sodium Chloride

Fragrance

Dye

5.00 Surfactant, Thickener
1.15 Viscosity Adjuster
2.50 Fragrance
q.s. Dye

Total 100.00

Procedure

- 1. In a suitable vessel equipped with heating and agitation capabilities, add Deionized Water and Propylene Glycol. Heat to 50°C with mixing.
- 2. Add Sodium Stearate and mix until clear. Avoid aeration.
- 3. Add NINOL® CAA and Sodium Chloride, mixing well and avoiding aeration.
- 4. Begin heating to 75°C. Mix until everything is dissolved and begin cooling.
- 5. Cool to 70°C and add Fragrance. Mix until everything dissolved.
- 6. Add dye. Mix until everything dissolved.
- 7. Cool to 65°C and fill container.

Physical Properties

Appearance at 25°C

Translucent solid

Storage/ Stability 25ºC at 6 months

Stable

This formulation was evaluated for turbidity (clarity in the appearance) compared to two other formulations: Deodorant Stick with NINOL® 40-CO and Deodorant Stick without Amides. The formulation containing NINOL® CAA showed better clarity (384 NTU) than the other two formulations (with NINOL® 40-CO: 446 NTU, without amide: 801 NTU). A lower value equals better clarity. All testing was completed using the Turbidity Analysis Test Method (SM 110-A).

External Comment

Marketing Notes: NINOL® CAA provides fragrance solubilization while maintaining clarity of the formulation. Advanced clear formulation leaves no white residue. Provides odor protection, glides on smooth. BCI = 86. Total Biorenewable Carbon Index (BCI) was calculated only for the Stepan surfactants used in this formulation. Other ingredients were not evaluated. For further information on Stepan's BCI, visit www.stepan.com.

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