



Antiperspirant/Deodorant Stick with Intelimer® 13-6 Polymer

Formulating Guide No. A002

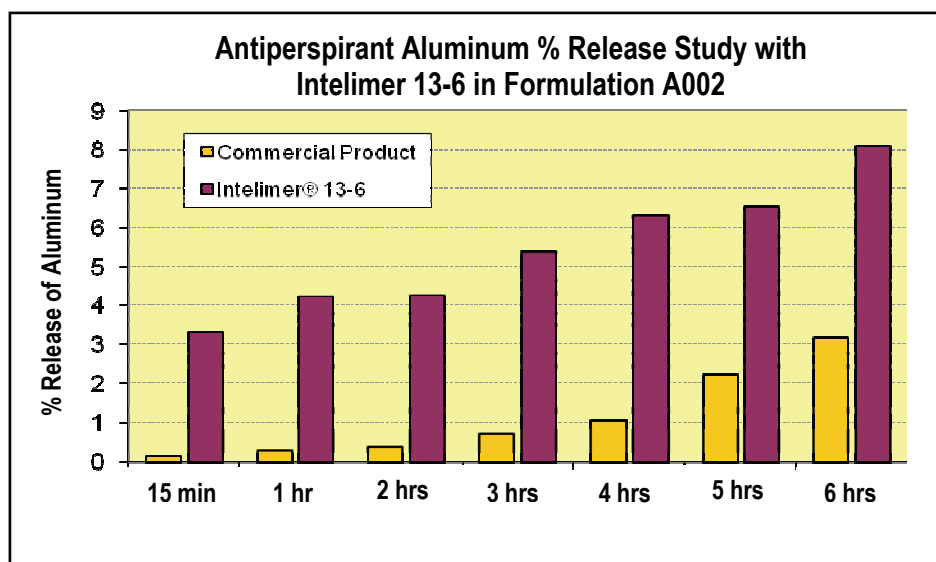
Description

Antiperspirant/deodorant stick with Intelimer 13-6 polymer is designed to provide a silky feel, non-whitening, and controlled release of actives.

Typical Properties

(not to be used as specifications)

Appearance	White Stick
pH	N/A
Stability	Passed 4 month 50 °C
Viscosity (cPs)	APDO Stick



Description of Aluminum-analysis:

Quantitative analysis for aluminum was carried out by inductively coupled plasma atomic emission spectroscopy (ICP-OES) using a Perkin-Elmer Optima 5000 dual view emission spectrometer with axial and radial viewing with background correction.

Ingredient / Trade Name	INCI Designation	%W/W	Function	Supplier
Probutyl® 14	PPG-14 Butyl Ether	28.5	Skin Conditioner	Croda
Dow Corning® 345	Cyclohexasiloxane (and) Cyclopentasiloxane	5.1	Emollient	Dow Corning
Finsolve® TN	C12-15 Alkyl Benzoate	5.3	Solublizer	Innospec
Castro Wax NF	Hydrogenated Cater Oil		Structurant	CasChem
Intelimer IPA 13-1	Poly C10-30 alkyl acrylate	5.0	Control release of Actives/ Thickener	Air Products
Crodacol® S-95	Stearyl Alcohol	28	Structurant	Croda
AAZG-7167 (80% active)	Aluminium Zirconium Tetra Chlorohydrax Gly	23.1 (18.48% active)	Antiperspirant active	Summit Research Lab
LiquaPar® Oil	Isopropylparaben (and) Isobutylparaben (and) Butylparaben	0.2	Preservative	ISP

Procedure

1. Combine all the ingredients in the order listed in the formulation in a vessel while stirring and begin to heat.
2. Continue to stir and heat until all the ingredients are completely dispersed and uniform. This should happen at a temperature of 75-80 °C.
3. Once mixture has become uniform, start to cool.
4. Continue to cool the formulation, at 70-72 °C pour batch into proper mold.

For Samples or More Information

If you would like additional information or technical assistance in preparing specific formulations, write or call Air Products and Chemicals, Inc.

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