



Antiperspirant / Deodorant Emulsion with Intelimer® 13-6 Polymer

Formulating Guide No. A001

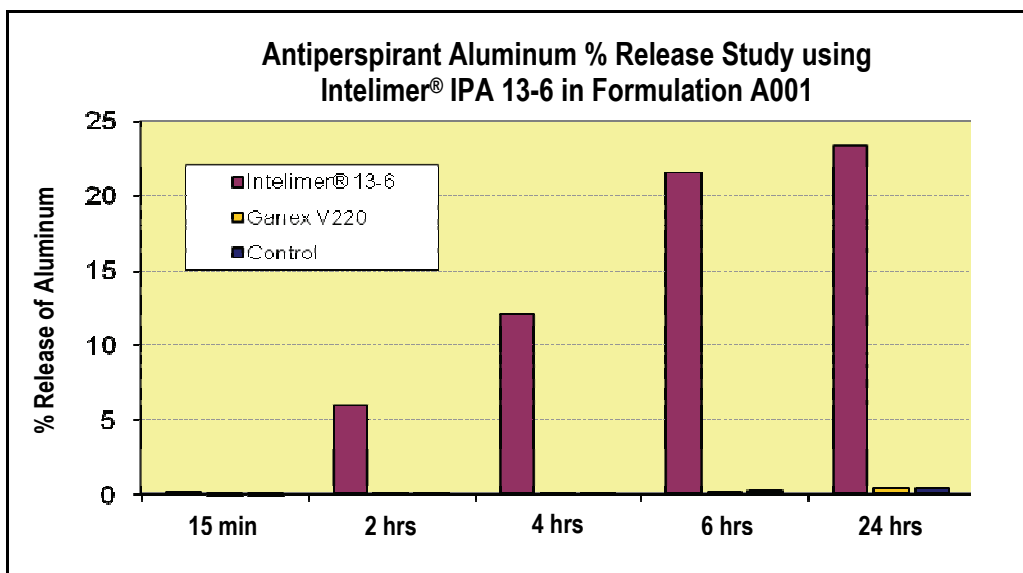
Description

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

Typical Properties

(not to be used as specifications)

| | |
|-----------------|----------------------|
| Appearance | Emulsion |
| pH | N/A |
| Stability | Passed 4 month 50 °C |
| Viscosity (cPs) | N/A |



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 |
|---------------------------|--|--------------------|---|---------------------|
| Phase A | | | | |
| Mineral Oil USP | Mineral Oil | 4.0 | Emollient | |
| SF 1202 | Cyclopentasiloxane | 11.5 | Emollient | Momentive |
| Dow Corning® 5225C | Cyclopentasiloxane (and) PEG/PPG-18/18 Dimethicone | 2.5 | Emulsifier | Dow Corning |
| Arlacel® P135 | PEG-30 Dipoly Hydroxy Stearate | 2.0 | Emulsifier | Uniqema |
| Intelimer IPA 13-6 | Poly C10-30 alkyl acrylate | 5.0 | Control release of Actives/Rheology modifier | Air Products |
| Phase B | | | | |
| Deionized Water | Water (Aqua) | 32.0 | Diluent | |
| Keltrol® CG-T | Xanthan Gum | 0.2 | Stabilizer | Keltrol |
| Glycerin | Pricerine 9088 | 5.0 | Humectant | Uniqema |
| Magnesium Sulfate | MgSO4 | 0.5 | Electrolyte | |
| Locorn® L | Aluminum Chlorohydrate | 40 (20% active) | AP-Active | Clariant |

Procedure

1. Combine Phase A ingredients in a vessel and heat while stirring to 75-80 °C.
2. Combine Phase B ingredients in a separate vessel and heat while stirring to 75-80 °C.
3. Slowly add Phase B to Phase A, homogenize for 3-6 minutes, continue stirring.
4. Cool to desired fill temperature and package.

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.

Air Products and Chemicals, Inc.

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