

Volatile Silicone-Free Low Residue AP Stick

A-1045-01

DESCRIPTION

The formulation is an easy to process, low residue suspenoid stick which exhibits acceptable consumer aesthetics. Normal application to each underarm provides a minimum of 24 hour wetness protection and odor protection.

ADVANTAGES

REACH AZP-908 is an effective enhanced efficacy AAZG superfine powder. The use of several high RI non-volatile oils results in very low visible white residue on the skin. Volatile cyclic silicone oil is not used.

Phase	Ingredient	Supplier	%w/w
A	Dimethicone (DM-Fluid-2cs)	Shin-Etsu	25.00
B	C12-15 Alkyl Benzoate (Liponate NEB)	Vantage Specialty Ingredients	15.00
C	Phenyl Trimethicone (Dow Corning 55	Dow Corning	10.00
D	Stearyl Alcohol		20.00
E	Hydrogenated Castor Oil (Castorwax MP-80)	CasChem Inc.	5.00
F	Polyethylene (Asensa CL 110)	Honeywell	1.00
G	PEG-8 Distearate (Stepan PEG 400	Stepan	1.00
H	Fragrance		1.00
I	Enhanced Efficacy Aluminum Zirconium Tetrachlorohydrate GLY Superfine Powder (REACH AZP-908)	Elementis	22.00

Procedure:

Please Note:

You may substitute a number of Elementis actives using this formulation. Contact our technical experts to inquire about alternatives. We offer a wide variety of both standard and enhanced efficacy actives for all end product applications.

1. Mix all ingredients except **REACH AZP-908**, Polyethylene and fragrance.
2. Heat to 82°C to get a liquid melt.
3. Add **REACH AZP-908**, followed by Polyethylene.
4. Stir and maintain 82°C until solids are uniformly dispersed.
5. Begin cooling, add fragrance at 55°C and mix well.
6. Pour into a stick container at about 49°C and cool completely.

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