

ANTIPERSPIRANT SOLID

RAW MATERIALS	Parts by Weight
SF-1202	50.0
Stearyl Alcohol	19.0
Castor Wax 70	3.0
Talc	4.0
Arlacel 165	2.0
Aluminum Zirconium Tetrachlorohydrate-Gly (ZAG)	22.0

## Procedure:

- 1) Mix SF-1202 and stearyl alcohol.
- 2) Add ZAG, talc and Arlacel 165.
- 3) Heat to 75C and stir with moderate agitation until all wax is melted.
- 4) Pre-melt castor wax and add to mixture as a liquid and stir for 15 min.
- 5) Cool mixture to 55C with continued mixing and pour into container. Cool (avoid air entrapment due to excessive mixing speeds).

Formulation AP-100

ANTIPERSPIRANT SUSPENSION ROLL-ON FORMULATION

RAW MATERIALS	Parts by Weight
SF-1173	45.7
SF-1202	19.5
SF-96 (50)	5.0
Quaternium 18 Hectorite	2.5
Ethanol	2.0
Aluminum Zirconium Tetrachlorohydrate-Gly (ZAG)	25.0
Cabosil M-5	0.3

## Procedure:

- 1) Mix SF-1173, SF-1202 and quaternium 18 Hectorite in a high-speed mixer.
- 2) Add SF-96 (50) and ethanol and continue mixing.
- 3) Add Cabosil M-5 and ZAG, and mix for an additional 15 minutes.
- 4) Transfer the material to a homogenizer (Eppenbach Homomixer) and homogenize for 3 minutes at high speed.
- 5) Check the viscosity; it should be approximately 3000 cps.

Formulation AP-101

SOURCE: GE Silicones: Personal Care Formulary: Suggested Formulations