

## Guide Formulation

# Antiperspirant-emulsion stick w/o with AEROSIL® R 974

AEROSIL® R 974 stabilizes the w/o emulsion

PHASE	INGREDIENTS	INCI NAME	% W/W	FUNCTION
1		PEG/PPG-20/15 dimethicone (and) cyclopentasiloxane	12.50	Stabilizer
		Cyclopenta- (and) cyclohexasiloxane	18.75	Emollient
		Stearic acid	1.25	Emulsifier
		Cetyl palmitate	16.50	Emollient
	TEGO® Alkanol 16	Cetyl Alcohol	7.00	Emulsifier
		Preservative	q.s.	Preservative
2	AEROSIL® R 974	Silica dimethyl silylate	2.00	Thickener/stabilizer
3		Aluminum chlorohydrate	20.00	Active Ingredient
		Water	20.00	Water
		Glycerin	2.00	Humectant
	<b>Total</b>		<b>100.00</b>	

## PROCESSING

- Melt all raw materials of phase 1 at 65–70 °C. Stir until uniform
- Add and disperse AEROSIL® (phase 2). Homogenize at high shear until uniform
- Adjust loss of cyclopenta- (and) cyclohexasiloxane
- Add phase 3 while stirring, adjust temperature to max. 65 °C
- Stir for 5 minutes, pour into packaging while stirring gently

**Note:** All formulations have been subjected to stability tests and have been shown to perform well. However, formulators should always perform their own stability tests when adapting formulations and / or using raw materials from other sources.

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