



GOON RESEARCH

DEGENERATE MATERIAL SCIENCE

SilkySlick Formulation Sheet

Ingredient	Function	w/w	Source
Hydrogenated Polydecene	Primary Emollient	20.00	Making Cosmetics
Cocos Nucifera (Coconut) Oil	Slip Modifier	18.00	Nutiva
Dimethicone 350 cSt	Slip Enhancer	18.00	TKB Trading
Petrolatum	Cushion & Film Former	15.00	Making Cosmetics
Cyclopentasiloxane & C30-45 Alkyl Cetearyl Dimethicone Crosspolymer	Silicone Elastomer & Feel Enhancer	8.00	Lotion Crafter
Diphenylsiloxy Phenyl Trimethicone	Slip Enhancer	8.00	Lotion Crafter
Lauryl Laurate	Slip & Feel Enhancer	6.00	Making Cosmetics
Tridecyl Trimellitate (TDTM)	Slip Modifier	5.00	TKB Trading
Trihydroxystearin (THS)	Structuring Agent	2.00	Making Cosmetics

Method

1. Combine all ingredients except THS and the silicone elastomer in a heat-resistant glass beaker.
2. Heat to 85–90 °C with continuous mixing until all ingredients are fully melted and the mixture is completely uniform.
3. Once the batch is fully molten and stabilized at 85–90 °C, increase to high shear mixing.
4. Slowly sift THS in small increments while maintaining high shear. Avoid dumping to prevent clumping or incomplete dispersion.
5. Maintain 85–90 °C and continue high shear mixing for 10–15 minutes to ensure full dispersion and activation of the THS.
6. Reduce to moderate mixing and begin controlled cooling to approximately 50 °C.
7. Add the silicone elastomer when temperature is below 55 °C.
8. Allow to cool to room temperature and let cure for 24 hours prior to evaluation.

Properties

Pending data collection.

Notes

For DIY purposes, adequately high shear can be achieved using a simple [milk frother](#). Any [standard tea strainer](#) should be adequate for sifting the THS.