

Personal Care

MICROSIL® FINISH

INCI NAME: Propoxytetramethyl Piperdiny
Dimethicone (and) Cetrimonium Chloride (and)
Cetrimonium Bromide (and) Trideceth-6 (and) C11-C15
Pareth-7

DESCRIPTION

MICROSIL® FINISH is a clear 30% aqueous cationic micro emulsion. **MICROSIL® FINISH** is a balanced combination of patented cationic hindered amine functional silicone polymers in combination with premium cationic organic quaternium salts. This versatile cationic complex was developed as a premium conditioning additive with ease in formulating crème conditioners, hair treatment products, leave-on hair treatments, and styling aids.

MICROSIL® FINISH provides multiple benefits in any hair formulation with the simple addition of (<5%) fatty alcohols. When formulated in a salon style crème rinse, **MICROSIL®FINISH** provides excellent wet and dry comb, pronounced hair highlights, softness, shine, hair volume and ant-frizz properties.

MICROSIL® FINISH can be used to make clear rinse off or leave in conditioning products.

BENEFITS

- Pronounced Hair Highlights
- Superior Wet Comb & Softness
- Excellent Anti-Frizz Protection
- Enhanced Hair Shine
- Versatile Formulation Aid
- Adds Body & Volume

APPLICATIONS

Hair Care: Premium Crème Conditioners, Conditioning Hair Treatments, Leave-On and Spray Softening/Conditioning

TYPICAL PROPERTIES

| Properties | Typical Results |
|----------------|-------------------------------|
| APPEARANCE | Clear to translucent |
| SOLUBILITY | Water Dispersible |
| IONIC STRENGTH | Cationic |
| COLOR | Clear to Slightly Translucent |
| ODOR | Characteristic |
| SOLIDS % | 25% |
| Ph | 5.0 |
| USAGE LEVEL | 8 – 12% |

These values are not intended for use in preparing specifications.

Product Information

MICROSIL® FINISH

SAMPLE FORMULA

Salon Select Pro Conditioner w/Microsil® FINISH

| | | | <u>% WT</u> |
|-----------------------|---|--------------------------------|--------------|
| Water Phase | | | |
| A1. | Deionized Water | | Q.S. |
| A2. | Propyl Paraben | | 0.10 |
| A3. | Methyl Paraben | | 0.20 |
| A4. | MICROSIL® FINISH | CHEMSIL SILICONES INC. | 10.00 |
| A5. | Propylene Glycol | | 3.00 |
| Oil Phase | | | |
| B1. | Cetyl Alcohol | | 3.00 |
| B2. | Stearyl Alcohol | | 2.00 |
| B3. | Cutina EGDS <i>Glycol Distearate</i> | Cognis | 0.80 |
| <45°C Phase | | | |
| C1. | Cranberry Fragrance | Ascent Aromatics (FN314108) | 0.30 |
| C2. | Hydantol 55 <i>DMDM Hydantoin</i> | KCI | 0.40 |

Procedure:

1. Heat while adding ingredients A1-A5 to 70°C under strong agitation.
2. Add B1-B3 while mixing. Mix for 15 minutes or until all solids are melted and system is homogeneous. Turn off heat and maintain good agitation as product cools without incorporating air.
3. At 45°C add C1 and C2 to batch and stop mixing at 40°C

Specifications:

Appearance – viscous white emulsion
pH – 6.5
Stability – 40°C eight weeks, pass 3 F/T

Product Code: CRL-10-49A

Product Information

MICROSIL® FINISH

HANDLING PRECAUTIONS

Product safety information required for safe use is not included. Before handling, read product and Safety Data Sheets and container labels for safe use, physical and health hazard information. Avoid static electricity by using properly grounded equipment.

USABLE LIFE AND STORAGE

Store below 25°C (77°F) in a dry place away from all sources of ignition. Store in tightly closed containers. Avoid direct or prolonged contact with skin and eyes. Wash hands thoroughly after handling. Do not eat, drink, or smoke in the work area.

PACKAGING

MICROSIL® FINISH is available in 460 lb. (210kg) drums.

* Samples are available upon request.

LIMITATIONS

This product is neither tested nor represented suitable for medical or pharmaceutical uses.

LIMITED WARRANTY- PLEASE READ CAREFULLY

The information contained herein is offered in good faith based on Chemsil's research and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information shall not be used in substitution for customers' tests to ensure that Chemsil's products are fully satisfactory for your specific applications. Our warranty is that the product will meet its current sales specifications. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

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