### Topical Excipients (Silky Touch)

The Silky Touch products are silicon-based excipients that can improve the bioavailability of the active drug, the aesthetics and the processability of topical pharmaceutical formulations (creams, emulsions, gels, ointments, lotions, sprays and stick formulations).

To assure consistent quality in pharmaceutical formulations, Dow Corning® brand topical excipient products are packaged and tested at the Healthcare Industries Materials Site utilizing principles of GMP guidelines for Active Pharmaceutical Ingredients (APIs).

### Regulatory Status

<table>
<thead>
<tr>
<th>Nonvolatile Content</th>
<th>Typical Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>%</td>
<td>Dynamic Viscosity</td>
</tr>
<tr>
<td></td>
<td>mPa.s</td>
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</table>

#### Volatiles

- **High-purity, volatile silicone fluid (hexamethyldisiloxane and octamethyltrisiloxane)**
  - Carrier for sprays
  - Spreading agent
  - Dow Corning® Q7-9180 Silicone Fluid
    - 0.65 cSt
    - Dynamic Viscosity: 0.59-0.71 mPa.s
    - Relative Density: 0.760
  - 1.0 cSt
    - Dynamic Viscosity: 0.61-0.81 mPa.s
    - Relative Density: 0.816

- **Clear liquid**
  - Volatile excipient for sprays
  - Solvent
  - Dow Corning® ST-Cyclomethicone 5 – NF
    - Dynamic Viscosity: 4.0 mPa.s
    - Relative Density: 0.95

- **Volatile silicone, decamethylcyclopentasiloxane (NF Cyclomethicone)**
  - Lubricant
  - Emollient
  - Skin protectant
  - Dow Corning® ST-Dimethiconol 40
    - Dynamic Viscosity: 41 mPa.s
    - Relative Density: 0.98

- **A short, hydroxy-terminated Dimethicone fluid**
  - Excipient for hydrophilic actives
  - Lubricant
  - Dow Corning® ST-Dimethiconol Blend 20
    - Dynamic Viscosity: 400-550 mPa.s
    - Relative Density: 0.952

- **Blends**
  - **A unique blend of silicone gum (6%) in Dimethicone**
    - Substance carrier for sprays
    - Dow Corning® Silmogen Carrier
    - Dynamic Viscosity: 1.5-4.0 mPa.s
    - Relative Density: 0.78

- **A dispersion of unique silicone elastomer in volatile silicone Translucent gel**
  - Unique, silky aesthetics (smooth, dry feel)
  - Rheology modifier
  - Thickener for silicone-containing formulations
  - Dow Corning® ST-Elastomer 10
    - Dynamic Viscosity: 0.960 mPa.s
    - Relative Density: 0.85

- **Waxes**
  - **Semi-occlusive, low-melting-point (53°C) silicone wax**
    - Semi-occlusive formulation
    - Dow Corning® Silky Wax 10
    - Dynamic Viscosity: 7000 (at 60°C)

- **An occlusive, alkylmethy silicone wax**
  - Replacement for petrolatum
  - Dow Corning® ST-Wax 30
    - Dynamic Viscosity: 60 (at 80°C)
    - Relative Density: 0.80

- **Alkylmethy silicone polyglycolic**
  - Emulsifier for water-in-oil and water-in-silicone emulsions (up to 80% water content)
  - Dow Corning® Emulsifier 10
    - Dynamic Viscosity: 1100-3500 mPa.s
    - Relative Density: 0.905

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1 Dow Corning can provide Technical Files (or Certificates of Suitability) as needed to meet requirements.
2 Not intended for human injection.