Carfil® SA1

Acrylic Copolymer Emulsion

Technical Data Sheet

Name: Carfil® SA1
Revision Date: 2019-09-27

Product Description

INCI Name: Acrylates copolymer

Carfil® SA1 polymer is a lightly cross-linked acrylic polymer dispersion designed to impart suspending, stabilizing, and thickening properties to a variety of surfactant-based personal cleansing products. It is a low odor liquid, containing 30% active polymer in water that is easily pumped, poured and diluted into aqueous formulations. Carfil® SA1 acrylic emulsion polymer can provide formulations containing high levels of surfactants with efficient suspending, stabilizing, thickening properties and clarity. Carfil® SA1 works synergistically with surfactants and salts resulting in efficient suspending, stabilizing, and thickening properties. In a word, Carfil® SA1 is ideal for aqueous personal cleansing products. Preservative: 2-phenoxyethanol 1400ppm. The effects of other substances and pH values on the inactivation of preservative should be noted.

Properties

1. Good thixotropy and high thickening efficiency
2. Excellent stabilization and particulate suspension
3. Excellent compatibility
4. Suitable for high transparent formulations
5. Lack of odor

Characteristic data*

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Unit</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Milky white liquid</td>
<td></td>
<td>Visual</td>
</tr>
<tr>
<td>Solids</td>
<td>29-31</td>
<td>wt%</td>
<td>WHPU/T011-571-2017 (5cm 150°C,20min)</td>
</tr>
<tr>
<td>pH</td>
<td>2.1-4.0</td>
<td></td>
<td>GB/T 6920-1986</td>
</tr>
<tr>
<td>Viscosity(25°C)</td>
<td>≤200</td>
<td>mPa·s</td>
<td>GB/T2794-2013 (61/30/LV)</td>
</tr>
</tbody>
</table>

*These properties are typical but do not constitute specifications.
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Storage

The product should be stored in dry condition between 5~35°C with the integrity of the packaging, and prevented from direct sunlight. The validity of this product is for 12 months, performance assessment is recommended before use after shelf life. The product should be protected from freezing during storage. It is suggested to filter before application and use up once the package is open.

Disclaimer: Wanhua Chemical Group Co., LTD. recommends that customers should check with Materials Safety Data Sheet (MSDS) for details about safety instructions. We also suggest that you contact the suppliers of other materials used in our recommended formulations and consult appropriate health and safety regulations prior to use. The information contained herein is believed to be reliable. However, nothing in this technical sheet should be considered as a representation of warranty, express or implicit, regarding the product characteristics, application, quality, safety, merchantability or fitness for a particular purpose. Nothing contained herein is to be considered as permission, recommendation, nor as an inducement to practice any patented invention without permission of the patent owner.