Unicap® TU35

Hydrophobically Modified Ethoxylated Urethane

Technical Data Sheet

Name: Unicap® TU35
Revision Date: 2019-01-15
NO: WHSM_TU35
Version: 1.0

Product Description

Unicap® TU35 is an efficient non-ionic hydrophobically modified polyurethane rheological modifier with good shear resistance and excellent compatibility with most kinds of surfactants, which is widely used in different pH range of formula products to provide outstanding thickening effect, especially for fabric softeners, acidic detergents and polishing care products.

Properties

1. Outstanding formula compatibility with various surfactant systems
2. Excellent thickening efficiency and good balance at low and medium shear range
3. Tailored for fabric softeners and polishing care products
4. Fast dissolution speed in cold water reducing processing time, no need for preheating and pre-dispersing, easily added at any procedure
5. Low odor, no organic solvent, no APEO and other harmful ingredients
6. Perfect for a wide range of pH applications

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>Translucent to slightly milky-white liquid</td>
<td></td>
<td>WHPU/T011-571-2017 (4cm, 150°C, 20min)</td>
</tr>
<tr>
<td>Non-volatile matter</td>
<td>33.0-37.0</td>
<td>%</td>
<td>GB 6920-1986</td>
</tr>
<tr>
<td>pH</td>
<td>6.0-7.0</td>
<td></td>
<td>GB/T 4472-2011, 25°C</td>
</tr>
<tr>
<td>Viscosity</td>
<td>26000-34000</td>
<td>mPa·s</td>
<td>Brookfield RV, 5#/6rpm, 25°C</td>
</tr>
<tr>
<td>Density</td>
<td>1.04 ±0.05</td>
<td>g/cm³</td>
<td></td>
</tr>
<tr>
<td>Chemistry</td>
<td>HEUR</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*These properties are typical but do not constitute specifications.
Instructions for use

Unicap® TU35 is supplied as a pourable liquid, which is easy to be used and can be added in any formulation directly after dilution. The amount of the addition is variable, probably 0.1-2.0% by weight of the formulation in its supplied form. The exact amount required in each formulation should be determined by pre-trials.

Storage

The product should be stored in dry conditions above 5°C and below 35°C with the integrity of the packaging, and prevent 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. After opening the packing, suggested to use up one time.

Disclaimer: Wanhua Chemical Group Co., LTD. recommends that any customers of this material should check with Materials Safety Data Sheet (MSDS) for details about safely handling this material. We also suggest that you contact the suppliers of any other materials used in our recommended formulations and suggestions for 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.