XHG-293 Silicone Surfactant

Product Description

XHG-293 Silicone Surfactant is a polyether modified silicone co-polymer suitable for a wide range of applications in automotive and household cleaning products. It is a non-ionic surface tension reducer and also provides excellent wetting, pro-foaming, and moderate conditioning properties to your formulation.

XHG-293 is also an industry standard silicone surfactant for most conventional rigid polyurethane foam and shoe sole systems. It provides excellent flame retardant properties in rigid foam applications and excellent cell structure in shoe sole applications.

Key Features and Benefits

- Improves substrate wetting
- Reduces surface tension
- Provides pro-foaming and anti-static properties
- Can be used as co-emulsifier in formulations
- Highly effective, even at low addition levels
- Compatible with most aqueous systems.

Typical Physical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>clear to hazy, slightly yellowish liquid</td>
</tr>
<tr>
<td>Active content (%)</td>
<td>100</td>
</tr>
<tr>
<td>Viscosity, 25°C, #3/6</td>
<td>250 – 400 cps</td>
</tr>
<tr>
<td>Cloud Point (1%), °C</td>
<td>&gt;85</td>
</tr>
</tbody>
</table>

* Typical product data values should not be used as specifications. Assistance and specifications are available by contacting Wynca sales office.

Potential Applications
XHG-293 silicone surfactant is soluble in water, alcohol and hydroalcoholic systems. It is suitable and stable for aqueous formulations, recommended dosage at 0.5-2.0% of the final formulation. For lubricating and anti-fog requirements, a higher dosage level is suggested.

XHG-293 can be applied in most rigid foam applications including laminated boardstock, pour-in-place systems, spray foam, packaging and bunstock. It also finds use in shoe sole applications.

1-2% is recommended for preparing polyurethane rigid foam. Use levels for this type of foam can vary from 1 to 2 parts per 100 parts polyol.

Precautions

XHG-293 silicone surfactant may not be compatible with certain materials. It is recommended that any mixture of the XHG-293 silicone surfactant with other materials be thoroughly checked before it is put into factory production.

Storage and Handling

To ensure that the product quality is maintained, the container should be tightly sealed when not in use. It should be stored at normal room temperature, preventing prolonged exposure to extreme heat and cold conditions, which may cause product separation. If the product is separated, stir the contents. If the product is frozen, thaw it at warm condition and stir after thawed.

Product Safety

When considering the use of any Wynca Specialties products in a particular application, review our latest Material Safety Data Sheets and ensure that the use intended can be accomplished safely. For Material Safety Data Sheets and other product safety information, contact the Wynca sales office nearest you. Before handling any of the products mentioned in the text, please obtain available product safety information and take necessary steps to ensure safety of use.