Araldite® DY-E Diluent

Product Description

Araldite® DY-E Diluent is an aliphatic glycidyl ether consisting primarily of C12 and C14 alkyl groups. Araldite® DY-E reactive diluent is used primarily as a additive to reduce the viscosity of liquid epoxy resins. The relatively long alkyl chain structure of Araldite® DY-E reactive diluent coupled with the polar epoxy group result in efficient viscosity reduction and reduced surface tension. Araldite DY-E® reactive diluent modified epoxy resins exhibit good wetting and leveling properties at low diluent concentrations.

\[ \text{R} = \text{C}_{12}^{\text{R}}\text{C}_{14} \]

Applications

- Casting
- Coatings
- Filament winding
- Floorings
- Laminating
- Potting and Tooling

Features

- FDA sanction for coatings in contact with dry bulk food
- Low toxicity
- Good flow
- Good wetting
- Low surface tension
- Good leveling
**Typical Properties***

<table>
<thead>
<tr>
<th>Property</th>
<th>Araldite® DY-E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear, no contamination</td>
</tr>
<tr>
<td>Color, Gardner, max</td>
<td>1</td>
</tr>
<tr>
<td>Epoxy value, eq/kg</td>
<td>3.2 – 3.6</td>
</tr>
<tr>
<td>Epoxy equivalent, g/eq</td>
<td>278 – 317</td>
</tr>
<tr>
<td>Viscosity at 25°C, cP</td>
<td>0-15</td>
</tr>
<tr>
<td>Density at 25°C, g/cm³</td>
<td>0.89</td>
</tr>
<tr>
<td>Flash point, closed cup, °C</td>
<td>154</td>
</tr>
</tbody>
</table>

*Properties are based on Huntsman test methods. Copies are available upon request

**Figure 1. Viscosity reduction effects of various Huntsman reactive diluents used with Araldite GY 6010®**
Storage

Araldite® DY-E Diluent should be stored in a dry place, in the original sealed containers, at temperatures between 2°C and 40°C (36°F and 104°F). Under these storage conditions, the product has a shelf life of 5 years (from date of manufacture). The product should not be exposed to direct sunlight.

Precautionary Statement

Huntsman Advanced Materials Americas LLC maintains up-to-date Safety Data Sheets (SDS) on all of its products. These sheets contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products. Users should review the latest MSDS to determine possible health hazards and appropriate precautions to implement prior to using this material.

First Aid!
Refer to SDS as mentioned above.

KEEP OUT OF REACH OF CHILDREN

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