JEFFADD™ additives

Typical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity, cSt at 25°C</td>
<td>32-36</td>
</tr>
<tr>
<td>Boiling Point, °C</td>
<td>1500</td>
</tr>
<tr>
<td>Flash Point, °C</td>
<td>&gt;250</td>
</tr>
<tr>
<td>Specific Gravity 20/20°C</td>
<td>1.09</td>
</tr>
</tbody>
</table>

Typical Applications

- Foam Modifier
- Ester
- Ether
- Cell Opener
- Aldehyde Scavenger

Asia Pacific Sales Offices

- **Australia**
  - Tel: +61 3 9933 6696
  - Fax: +61 3 9936 2908
  - 10003 Woodloch Forest Drive
  - The Woodlands, TX 77380

- **Canada**
  - Tel: +1 281 719 6000
  - Fax: +1 281 719 6055
  - 10003 Woodloch Forest Drive
  - The Woodlands, TX 77380

- **China**
  - Tel: +86 21 2325 7908
  - Fax: +886 3 483 6412
  - 8 Xing Yi Road Industrial Third Road
  - Taiyuan, Taiwan

- **Europe, Africa and Middle East**
  - Tel: +32 2 758 9211
  - Fax: +65 6296 3368
  - #37-00 Gateway West
  - 61 Market Road
  - Brooklyn, #37-00 Gateway West
  - Victoria 3012, Australia

- **India**
  - Tel: +91 22 4287 5100
  - Fax: +91 22 4287 5300
  - Opp. Linkway Honda Showroom
  - Mumbai - 400072, India

- **Japan**
  - Tel: +81 78 304 3900
  - Fax: +81 78 304 3970
  - 6th Floor, 5-5-2
  - 650-0047, Japan

- **Korea**
  - Tel: +82 2 3404 6800
  - Fax: +82 2 556 3263
  - 49 Floor Maxdo Centre
  - No. 19
  - Seoul, Korea

- **Singapore**
  - Tel: +65 6297 3363
  - Fax: +65 6296 3368
  - 189720
  - 5th Floor, Dukmyung Building
  - Gangnam-gu

- **South Africa**
  - Tel: +27 21 705 9211
  - Fax: +27 21 705 8946

- **United States**
  - Tel: +1 281 719 6000
  - Fax: +1 281 719 6055
  - 10003 Woodloch Forest Drive
  - The Woodlands, TX 77380

- **Vietnam**
  - Tel: +84 28 3627 9000
  - Fax: +84 28 3627 9010
  - 191 An Duong Vuong Street
  - District 1, Ho Chi Minh City

- **Europe**
  - www.huntsman.com/performance_products

Infinite possibilities

With manufacturing sites and technical teams located around the world, we combine global reach with in-depth regional and sector specific support:

- 20 manufacturing locations
- 2 JV sites & 4 R&D centres
- 8 sales hubs
- 32-36 1500
- 56.1 248 >250 185 CC 0.99
- 281 22 >260 163 CC 0.97
- n.d. 60 330 >150CC 0.98

Sustainable chemistry

We are dedicated to sustainable chemistry and the ongoing development of low impact chemical components that can help resolve some of the major global challenges facing the human population. Contributing to formulations that maximize the use of our planet's natural resources, we employ bio-based renewable feedstocks and raw materials wherever possible. Our sites also comply with the highest operational standards, making it easier for our customers to adhere to complex regulatory guidelines in their own industries.

Contribution to formulations...
JEFFCAT® amine catalysts

The large and growing family of JEFFCAT® amine catalysts from Huntsman Performance Products provides solutions to a wide range of urethane applications including polyether and polyester foams, coatings, elastomers, and high-modulus urethane plastics. The unique industry-leading low emission JEFFCAT® amine catalyst product range results from the value of Huntsman’s advanced technologies and 40-plus years of experience with urethane catalysts and addresses the environmental, health and safety aspects of polyurethane foam production and usage in many application areas including automotive, furniture & bedding and spray foams.

JEFFCAT® catalysts

Typical Properties

Typical Applications

LUMI EMISSION CATALYSTS / REACTIVE CATALYSTS

Typical Properties

Typical Applications

SPECIALTY AMINE CATALYSTS

Typical Properties

Typical Applications

Auxiliary products

In RIM reaction injection molding technology, the use of JEFFAMINE® polyetheramines and JEFFSOL® propylene carbonate can improve various physical characteristics such as thermal, abrasion and impact resistance, tear strength, solvent stability and dynamic fatigue. Similar characteristics are also seen in more standard polyurethane foam systems.