GEOlube® 50 A 380 is a water soluble, monol initiated ethylene oxide / propylene oxide co-polymer manufactured to provide a viscosity of 387 cSt @ 40°C.

**Typical Physical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity @40°C, cSt</td>
<td>387</td>
<td>-</td>
</tr>
<tr>
<td>Viscosity @100°C, cSt</td>
<td>70</td>
<td>-</td>
</tr>
<tr>
<td>Viscosity index</td>
<td>254</td>
<td>ASTM D2270</td>
</tr>
<tr>
<td>Pour point, °C</td>
<td>-42</td>
<td>ASTM D97</td>
</tr>
<tr>
<td>Refractive index, n20D</td>
<td>1.46</td>
<td>-</td>
</tr>
<tr>
<td>Density @20°C, kg/m³</td>
<td>1056</td>
<td>-</td>
</tr>
<tr>
<td>Flash point, COC, °C</td>
<td>240</td>
<td>-</td>
</tr>
<tr>
<td>Vapour pressure, mm Hg @20°C</td>
<td>&lt;0.001</td>
<td>-</td>
</tr>
<tr>
<td>Water content, % by wt</td>
<td>&lt;0.25</td>
<td>-</td>
</tr>
<tr>
<td>Specific heat, kJ/kg K</td>
<td>1.95</td>
<td>-</td>
</tr>
<tr>
<td>Ash</td>
<td>&lt;0.01</td>
<td>ASTM D482</td>
</tr>
<tr>
<td>Surface tension @20°C, Dynes / cm</td>
<td>35 - 40</td>
<td>-</td>
</tr>
</tbody>
</table>

* The typical values presented here are believed to be accurate; they should not, however, be considered to constitute a specification.
This product finds extensive application when manufacturing and formulating various water soluble lubricants, for example:

- Gear and calender lubricants,
- Compressor lubricants,
- Metal working formulations.

**Viscosity vs. Temperature Behaviour**
**GEOlube® 50 A 380** is compliant under the following FDA 21 CFR regulations:

<table>
<thead>
<tr>
<th>Regulation 173.310</th>
<th>Regulation 175.105</th>
<th>Regulation 176.210</th>
</tr>
</thead>
<tbody>
<tr>
<td>178.3120</td>
<td>178.3570</td>
<td>178.3910</td>
</tr>
</tbody>
</table>

and may therefore be used in relevant applications where incidental food contact may occur.

**Registration & Regulatory Information**

Please refer to the safety datasheet.

**Handling & Storage**

This product can be stored for at least 2 years at ambient storage temperature and conditions without any deterioration. Please refer to the safety datasheet for more details.

**Miscellaneous**

Various pack types are available; please contact your local GEO Specialty Chemicals representative for further information.

GEOlube® is a registered trademark of GEO Specialty Chemicals, Inc.

All information and data, including the formulations and procedures discussed herein, are believed to be correct. However, this should not be accepted as a guarantee of their accuracy, and confirming tests should be run in your laboratory or plant. No statement should be construed as a recommendation for any use which would violate any patent rights. Sales of all products are pursuant to terms and conditions included in GEO Specialty Chemicals sales documents. Nothing contained therein shall constitute a guarantee or warranty with respect to the products described or their use. Safety information regarding these products is contained in their Safety Data Sheets. Users of these products are urged to review and use this information.