**DAPHNE SUPERSCREW**

~Mineral Based Lubricants for Long-life Screw Compressor Oil~

1. **Application**
   A Long-life mineral based lubricant oil for screw compressors.

2. **Type**
   Base Oil: The paraffin based oil that was well-refined in the hydrocarbon reforming method.
   Additives: The oxidation inhibitors for hot temperature, Copper Deactivator, and Rust inhibitors are included.
   Daphne Superscrew is rarely affected to the mist of cutting oil, or degraded oil left in the compressor.

3. **Characteristics**
   (1) It has excellent oxidation stability, and prevents from the machine troubles.
   (2) It reduces the amount of sludge by mixing cutting oil mist, degraded oil.
   (3) It has an excellent Rust preventing ability and demulsibility, even in the case of condensed water mixed. It facilitates the drain discharge.
   (4) It prevents from copper corrosion by the effect of Copper Deactivator.

4. **ISO Viscosity Grade**
   VG32 and VG46

5. **Typical Specification**

<table>
<thead>
<tr>
<th>Test Items</th>
<th>ISO VG</th>
<th>VG32</th>
<th>VG46</th>
<th>VG68</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity @ 40℃ mm²/s</td>
<td></td>
<td>32.53</td>
<td>45.34</td>
<td>67.89</td>
</tr>
<tr>
<td>Viscosity @ 100℃ mm²/s</td>
<td></td>
<td>5.458</td>
<td>6.793</td>
<td>8.762</td>
</tr>
<tr>
<td>Density 15℃ g/cm³</td>
<td></td>
<td>0.8654</td>
<td>0.8685</td>
<td>0.8740</td>
</tr>
<tr>
<td>Color (ASTM)</td>
<td></td>
<td>L0.5</td>
<td>L0.5</td>
<td>L1.0</td>
</tr>
<tr>
<td>Acid Number mg KOH/g</td>
<td></td>
<td>0.05</td>
<td>0.07</td>
<td>0.07</td>
</tr>
<tr>
<td>Flash Point (COC) °C</td>
<td></td>
<td>228</td>
<td>230</td>
<td>244</td>
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<tr>
<td>Copper Corrosion 100℃×3h</td>
<td>1(1B)</td>
<td>1(1B)</td>
<td>1(1B)</td>
<td></td>
</tr>
<tr>
<td>RBOT @150℃ min</td>
<td></td>
<td>1920</td>
<td>1860</td>
<td></td>
</tr>
</tbody>
</table>

6. **ISO Viscosity Grade**
   VG32 and VG46

7. **Package**
   200L drum, 20L pale

**Storage and Handling:**
Keep container closed when not in use. Keep away from heat, flame or strong oxidants.

**Health and Safety:**
Reference should always be made to the Material Safety Data Sheet, a copy of which is supplied to all our customers. Always apply barrier creams to the skin and prolonged contact.
Use special hand cleansers and wash toughly with soap and water. Do not get in eyes. Avoid breathing vapor, mists or fume.

【英文 P 資料】DN. スーパースクリュー.doc