Way Lubricant® X
Efficient performance machine tool slideway lubricant

Product description

Way Lubricant X is an efficient performance machine tool slideway lubricant, formulated with highly refined mineral base oils, friction modifiers, extreme pressure and anti-rust additives, with tackiness agents, and corrosion inhibitors.

Way Lubricant X offers good demulsibility properties for rapid separation from coolants, reducing the possibility of bacteria growth due to oil contamination.

Customer benefits

• Friction modifiers contribute smooth high lubricity, helping reduce friction, drag, stick-slip and chatter, improving workpiece finish
• Tackiness additives provide high oil film strength and assist in accurate table positioning and lubricant stability on vertical slideways
• EP additives maintain tough oil film protection on slideways and guides helping resist scoring and wear under heavy loads
• Rust and corrosion inhibitors, combined with an adhesive oil film, assist in maintaining robust machine protection
• Adhesive performance helps ensure lubricant resists fluid washout, and squeeze-out under heavy loads
• Formulation aids rapid separation from coolants, helping increase cutting fluid life and reduce bacteria growth in contaminated oil
• Compatible with most industrial soluble oils and coolants

Applications

• Machine tool slideways and guides:
  - Horizontal slideways (ISO 68)
  - Light-to-moderate applications (ISO 68)
  - Vertical slideways (ISO 220)
  - More severe applications (ISO 220)
• Suitable for use with Bijur Automatic Lubricant delivery systems

Product highlights:

• Helps reduce stick-slip, chatter and improves machining accuracy
• Assists scoring and wear resistance under heavy loads
• Promotes robust machine protection
• Selected specification standards include:
  - Cincinnati Machine
  - General Motors
  - DIN
  - ISO

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Other industrial applications requiring an adhesive, corrosion inhibited lubricant with EP properties:

- Damping fluid for wind turbines (ISO 320)

**Approvals and performance**

**Performance**
- Cincinnati Machine Specification P-47 Heavy-Medium Way Oil (ISO 68)
- Cincinnati Machine Specification P-50 Heavy Way Oil (ISO 220)
- As hydraulic oil, they meet the requirements of DIN 51524 part II.
- General Motors LS-2 and in Europe SKC.
- DIN 51 502: CG

**Typical test data**

<table>
<thead>
<tr>
<th>WAY LUBRICANT X</th>
<th>TEST METHODS</th>
<th>RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEST</td>
<td></td>
<td>68  100 220 320</td>
</tr>
<tr>
<td>Viscosity Grade</td>
<td></td>
<td>031346.1 031347.1 031348.1</td>
</tr>
<tr>
<td>Product Code</td>
<td></td>
<td>68  100 220 320</td>
</tr>
<tr>
<td>Kinematic viscosity, 40 °C, mm²/s</td>
<td>ISO 3104</td>
<td>68  100 220 320</td>
</tr>
<tr>
<td>Kinematic viscosity, 100 °C, mm²/s</td>
<td>ISO 3104</td>
<td>9.81 12.13 20.9 26.32</td>
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<tr>
<td>Viscosity Index</td>
<td>ISO 2909</td>
<td>119 114 108 106</td>
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<tr>
<td>Flash Point COC, °C</td>
<td>ISO 2592</td>
<td>229 241 241 242</td>
</tr>
<tr>
<td>Pour point, °C</td>
<td>ISO 3016</td>
<td>-33 -27 -27 -24</td>
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<tr>
<td>Density, 15 °C, Kg/l</td>
<td>ASTM D1298</td>
<td>0.877 0.880 0.892 0.892</td>
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<tr>
<td>Cu Corrosion, 3h, 100 °C</td>
<td>ASTM D0130</td>
<td>1B 1B 1B 1B</td>
</tr>
<tr>
<td>Rust - distilled water</td>
<td>ASTM D0665A</td>
<td>Pass Pass Pass Pass</td>
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<tr>
<td>FZG Damaged Load, a/8.3/90</td>
<td>DIN 51354</td>
<td>&gt;12 &gt;12 &gt;12 &gt;12</td>
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<tr>
<td>Total Acid Number, mg KOH/g</td>
<td>DIN 51558</td>
<td>0.6 0.64 0.59 0.64</td>
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</tbody>
</table>

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.
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continued

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Health, safety, storage and environmental Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application and in accordance with the recommendations provided in the Material Safety Data Sheet (MSDS). MSDS's are available upon request through your local sales office, or via the Internet. This product should not be used for purposes other than its intended use. When disposing of used product, take care to protect the environment and follow local legislation.

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