SPECIAL OILS

ADDINOL WHITEOIL WX 15, WX 32, WX 68

PRODUCT DESCRIPTION
ADDINOL Whiteoils WX 15, WX 32 (PARAFFINUM PERLIQUIDUM) and WX 68 (PARAFFINUM LIQUIDUM) are carefully refined mineral oils.

APPLICATION
Pharmaceutical industry
- Preferred as carrier for solid and semisolid constituents
- Highly suitable as basis for ointments and laxatives, capsules and pills

Cosmetic industry
- Suitable as basic components for the production of ointments, pastes, hair and skin care, lipstick, baby oils, care and cleaning crèmes

Food and packing industry
- Excellent applicability for lubrication of packing machines for food and for machines, which make packing materials
- Fit as absorbents in extraction plants of oil mills

Chemical industry
- Excellent suitability as processing and proceeding oil to produce plastic granulates and elastomeric compounds (Polystyrene, EPDM, SBS, SEBS)

SPECIFICATIONS
Registered according to the requirements of:
- NSF H1 (White Oil WX 15)

Meet the purity requirements of the following specifications:
- German Pharmacopoeia (DAB)*
- European Pharmacopoeia (PhEur)*
- British Pharmacopoeia (BP)*
- US Pharmacopoeia (US)*
- Food and Drug Administration (FDA)* 21 CFR 178.3620(a)
* in the respectively valid versions

DELIVERY
Delivery preferable in drums and 20 l cans.

CHARACTERISTICS
- Neutral in odour and taste, does not contain aromatic hydrocarbons
- Colourless and transparent
- Stable against environmental influences
- Excellent water displacing and penetrating properties
- Good oxidation stability

ADVANTAGES AND BENEFITS
- Perfect for pharmaceutical and food industry; physiologically harmless
- No discolourations
- Good colour stability at exposure to heat and light
- Excellent corrosion prevention
- Does not resinify
ADDINOL WHITEOIL WX 15, WX 32, WX 68

SPECIFICATIONS AND TYPICAL PARAMETERS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Test condition / unit</th>
<th>WX 15</th>
<th>WX 32</th>
<th>WX 68</th>
<th>Method acc. to</th>
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<tbody>
<tr>
<td>NSF-H1 registration</td>
<td></td>
<td>147 319</td>
<td>--</td>
<td>running</td>
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<td>Colour acc. to Saybolt</td>
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<td>+ 30</td>
<td>+ 30</td>
<td>+ 30</td>
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<tr>
<td>Density</td>
<td>at 15°C kg/m³</td>
<td>850</td>
<td>862</td>
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<td>Viscosity</td>
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<td>35.3</td>
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<td>at 40°C mm²/s</td>
<td>15.6</td>
<td>32.5</td>
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<td>at 100°C mm²/s</td>
<td>3.5</td>
<td>5.7</td>
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<tr>
<td>Flash point</td>
<td>COC °C min.</td>
<td>187</td>
<td>213</td>
<td>256</td>
<td>DIN EN ISO 2592</td>
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<td>Pour point</td>
<td>°C max.</td>
<td>-22</td>
<td>-12</td>
<td>-12</td>
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<td>Neutralisation number</td>
<td>mg KOH/g</td>
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<td>0,01</td>
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<td>Refractive index</td>
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<td>C_P</td>
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<td>Sulphur content</td>
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<td>&lt; 10</td>
<td>&lt; 10</td>
<td>&lt; 10</td>
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</table>

ADDINOL - The Experts for High-Performance Lubricants

We at ADDINOL develop and produce more than 600 high-performance lubricants of the new generation. Among these are automotive lubricants for highest demands and pioneering developments for industrial applications. Our customers all over the world benefit from the high and stable quality of our ADDINOL high-performance lubricants, our know-how and the individual customer advisory service of our competent experts. Our company has world wide activities. ADDINOL high-performance lubricants are distributed by more than 70 international partners.

The data given in this product sheet represent our current level of knowledge and experience. Due to the various specific application they do, however, not discharge the user from his own examination. The information provided herein may not be used to derive a legally binding warranty of specific properties or the suitability for a certain purpose of application. Detailed security-concerning and toxicological data as well as security instructions for each product can be taken from the corresponding Material Safety Data Sheets (MSDS). High-performance lubricants from ADDINOL are under continuous development. Therefore, ADDINOL Lube Oil GmbH keeps the right to change technical data in this product data sheet without notification. In case of doubt, please do not hesitate to contact our customers’ advisory service.