

## SAPPHIRE® Hi-Power Oils

Hydraulic, airline and compressor oils ISO VG 22, 32, 46, 68, 100

### Product Overview

ROCOL® SAPPHIRE Hi-Power oils are high performance, combined, hydraulic, airline and compressor oils designed for most types of air compressors and hydraulic systems.

SAPPHIRE Hi-Power oils are highly thermally stable and are designed to give superior service life. The incorporated LCO (Low Carry Over) system ensures maximum compressor efficiency.

### Features and Benefits

- SAPPHIRE Hi-Power oils have a wide operating temperature range from -20°C to +120°C.
- Special antioxidant combination gives high thermal stability for longer fluid life with lower deposit, sludge and varnish formation.
- The unique Low Carry Over (LCO) system of SAPPHIRE Hi-Power oils are designed to provide optimum compressor performance.
- SAPPHIRE Hi-Power oils have excellent anti-wear properties to give reduced wear and longer machine life.
- Outstanding corrosion resistance protects equipment from water damage.
- SAPPHIRE Hi-Power oils (typically 22/32/46) are ideal for use in pneumatic oil lubricator bottles.
- Low foaming formula provides more efficient lubrication.
- SAPPHIRE Hi-Power oils have good filterability and are zinc free..
- SAPPHIRE Hi-Power oils contain a blue dye to help identify any problematic leaks.

### Directions for Storage and Use

- Product should be stored unopened in the original container.
- Storage temperature should be between 1°C and 40°C.
- If stored in accordance with the above guidelines, shelf life is 3 years from date of manufacture.
- For optimum performance drain and flush the unit prior to filling with SAPPHIRE Hi-Power.
- Compatible with mineral oil and polyalphaolefin (PAO) based oils.

### Specifications

- US Steel 127, 136
- Cincinatti Machine P-68, P-69, P-70
- DIN 51506
- DIN 51524 (parts 1 and 2)
- Dennison HF-0, HF-1, HF-2
- Vickers M-2950-S, I-286-S

### Pack Sizes

Viscosity Grade	20L	200L
22	52525	52529
32	52545	52549
46	52555	52559
68	52565	52569
100	52575	52579

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Property	Test Method	Result
Appearance	Visual	Blue liquid
Base Type	N/A	Severely refined mineral oil

Property	Test Method	SAPPHIRE Hi-Power				
		22	32	46	68	100
<b>Kinematic Viscosity:</b>						
<b>cSt @ 40°C</b>	<b>IP 71</b>	<b>22</b>	<b>32</b>	<b>46</b>	<b>68</b>	<b>100</b>
<b>cSt @ 100°C</b>	<b>IP 71</b>	<b>4.6</b>	<b>5.8</b>	<b>6.7</b>	<b>9.3</b>	<b>11.9</b>
<b>Viscosity Index</b>	<b>ASTM D2270</b>	<b>127</b>	<b>125</b>	<b>104</b>	<b>112</b>	<b>110</b>
<b>Density (g/cm<sup>3</sup>)</b>	<b>N/A</b>	<b>0.86</b>	<b>0.86</b>	<b>0.87</b>	<b>0.87</b>	<b>0.87</b>
<b>Pour Point (°C)</b>	<b>ASTM D5950</b>	<b>-9</b>	<b>-9</b>	<b>-9</b>	<b>-9</b>	<b>-9</b>
<b>Flash Point (°C) COC</b>	<b>ASTM D93</b>	<b>190</b>	<b>204</b>	<b>210</b>	<b>220</b>	<b>228</b>
<b>Copper Corrosion</b>	<b>IP 112 - ASTM D130</b>	<b>1a</b>	<b>1a</b>	<b>1a</b>	<b>1a</b>	<b>1a</b>
<b>Rust Protection</b>	<b>ASTM D665</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>
<b>Oxidation Test Hours</b>	<b>DIN 51587</b>	<b>&gt;3500</b>	<b>&gt;3500</b>	<b>&gt;3500</b>	<b>&gt;3500</b>	<b>&gt;3500</b>

Values quoted above are typical and do not constitute a specification.

### Safety Data Sheets

Safety data sheets are available for download from our website [www.rocol.com](http://www.rocol.com) or may be obtained from your usual ROCOL contact.

The information in this publication is based on our experience and reports from customers. There are many factors outside our control or knowledge which affect the use and performance of our products, for which reason it is given without responsibility.

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