

# Technical Data

## SAPPHIRE® Hi-Load 2

### Long Life Multi Purpose Bearing Grease With MoS2

#### Description

ROCOL® Hi-Load 2 is a heavy duty bearing greases containing molybdenum disulphide that has been designed for the effective lubrication and protection of ball, roller and plain bearings used in extreme environments.

SAPPHIRE Hi-Load 2 combines the triple life performance of SAPPHIRE 2 with the addition of molybdenum disulphide ensuring that a lubricating film exists under the most extreme loadings where the grease film can be squeezed out.

#### Applications / Industries

- Ball Bearings
- Roller Bearings
- Plain Bearings
- Thrust Bearings
- Presses
- Crushers
- Heavy Industry
- Quarries
- Docks and Ports
- Film Stretching
- Construction

#### Approvals

Volvo Constructions Equipment

Bruckner Maschinenbau – Approved for use on plastic film stretching machines

Siemens – approved for use on switchgear – IC SI/I/520

#### Features & Benefits

- Offers an excellent wide temperature range of -30°C to +150°C
- Provides outstanding load carrying capability / EP performance
- Highly resistant to oxidation providing greatly extended lubrication intervals – typically 3 times longer than conventional lubricants.
- Molybdenum disulphide (MoS2) has an affinity to metal surfaces leaving a tenacious high load carrying film with a low coefficient of friction.
- Extremely durable, reducing frictional heat and wear and extending component life and lubrication intervals
- Ideal for shock loads and vibration
- Excellent corrosion resistance protecting in humid, wet conditions.
- Revolutionary multi-complex soap technology offering superior performance
- Highly tenacious lubricants, with outstanding film strength, ensure the lubricants remain in place even in severe operating conditions.

#### Directions For Use

SAPPHIRE Hi-Load 2 can be applied manually, by a grease gun or keg pump.

For best practice the storage temperature should be kept between 0°C and 40°C.

Shelf life is 3 years from date of manufacture.

#### Further Information

For pack sizes, part codes and safety data sheets please visit [www.rocol.com](http://www.rocol.com) or get in touch with our customer service team who will be happy to help: [customer.service@rocol.com](mailto:customer.service@rocol.com)

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Property	Test Method	Result
<b>Appearance</b>	Visual	<b>Smooth blue/black grease</b>
<b>NLGI No.</b>	IP 50 – ASTM D217	<b>2</b>
<b>Base Type</b>	N/A	<b>Severely refined mineral oil</b>
<b>Base Fluid Viscosity at 40°C</b>	IP 71	<b>180cSt</b>
<b>Base Fluid Viscosity at 100°C</b>	IP 71	<b>17cSt</b>
<b>Thickener</b>	N/A	<b>Multi complex soap technology</b>
<b>Solids</b>	N/A	<b>Molybdenum disulphide</b>
<b>Temperature Range</b>	N/A	<b>-30°C to +150°C</b>
<b>4-Ball:</b>		
<b>Weld Load</b>	IP 239 – ASTM D2596	<b>&gt;800kg</b>
<b>Mean Hertz Load</b>	IP 239 – ASTM D2596	<b>144kg</b>
<b>Timken 'OK' Load</b>	IP 326 – ASTM D2509	<b>70 lb</b>
<b>Water Washout Test</b>	IP 215 - ASTM D1264	<b>2%</b>
<b>Emcor Corrosion Test</b>	IP 220	<b>0:0</b>
<b>Copper Corrosion Test</b>	IP 112 – ASTM D130	<b>1a</b>

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

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