

MOLY

Heavy duty Industrial EP grease

Description

The MOLY heavy duty grease with ANTIFRICTION TREATMENT outperforms all other heavy duty greases on the market.

Characteristics and Benefits

The MOLY grease unique formulation includes such elements as:

- 5% Molybdenum disulphide compound
- Overbased calcium sulfonate complex
- Superior quality mineral base oil
- PROLAB's ANTIFRICTION TREATMENT

Its exclusive PROLAB formula brings the MOLY grease to an exceptional level of performance:

- Super adherent
- Reduces friction
- Protects against rust, corrosion and oxidation
- Provides exceptional load, shock, impact and washout resistance
- Excellent mechanical stability

The exceptional properties of the MOLY grease bring notable benefits from regular use including less frequent lubricating jobs and substantial savings on maintenance costs.

Available in NLGI grades 0, 1 and 2, PROLAB's MOLY heavy-duty grease can be used all year-round.

Types of Application

The MOLY heavy-duty grease is a must for every type of business, no matter what the size or the nature of the operations. It is very sticky and is recommended for all applications where load and washout resistance are of utmost importance. It is particularly efficient for the greasing of joints, pins and slide tracks.

Directions for Use

Always use the MOLY heavy-duty grease in reference to the equipment manufacturer's manual.

Warning

The MOLY heavy-duty grease is not recommended for equipment with a rotational speed exceeding 1200 rpm.

Whenever performing a grease change, make sure to validate the compatibility of the various greases used (refer to [PROLAB's grease compatibility chart](#)).

Available Sizes

435 g, 450 g, 17 kg, 55 kg, 180 kg

Product Code

#294: MOLY-0

#291: MOLY-1

#293: MOLY-2

#271: MOLY-32-0

#266: MOLY-32-2

Characteristics	ASTM Test	Typical Values MOLY-2	Typical Values MOLY-1	Typical Values MOLY-0
Apearance/Texture		Dark Grey, Smooth	Dark Grey, Smooth	Dark Grey, Smooth
Molybdenum Disulfide		≥5,0 m%	≥5,0 m%	≥5,0 m%
N.L.G.I. Grade		2	1	0
Viscosity at 40°C	D445	324 cSt	36,9 cSt	42,8 cSt
Viscosity at 100°C	D445	26 cSt	6,1 cSt	6,7 cSt
Viscosity Index	D2270	≥ 100	111	110
Dropping Point	D2265	327°C	300°C	280°C

Oil Separation at 25°C	D1742	0%	0,2%	0,2%
Molybdenum Molecule Size		av. 1,5 mic	av. 1,5 mic	av. 1,5 mic
Penetration Cone	D217	265-295	310-340	355-385
Consistency 60 X	D217	285 (1/10mm)	325 (1/10mm)	370 (1/10mm)
Shear Stability 100,000 X	D217	<3,6%	2,3%	2,0%
Shear Stability 10,000 X (50/50 with water)	D217	7,9%	7,9%	8,5%
Roll Stability	D1831	n.a.	n.a.	n.a.
Wheel Bearing Leakage	D4290	n.a.	6 gr	n.a.
Oxidation Resistance (Pressure Drop)				
- 1000 hrs.		13 psi	9 psi	10 psi
- 500 hrs.	D942	8,5 psi	n.a.	n.a.
- 100 hrs.		3,8 psi	n.a.	n.a.
Bearing Life	D3527	n.a.	100 hrs.	180 hrs.
4-Ball Wear (75°C, 40 kg, 1200 t/m, 1h)	D2266	0,38 mm	0,4 mm	0,42 mm
Load Wear Index	D2596	>100 kg	55 kg	55 kg
Weld Load	D2596	800 kg	400 kg	400 kg
Timken OK Load	D2509	32 kg	27 kg	25 kg
Rust Preventive	D1743	Pass	Pass	Pass
Water Spray Resistance at 79°C	D1264	1%	5%	7,5%
Corrosion - Copper Strip	D130	1b	1b	1b
Low Temperature Torque (-40°C)	D4693	n.a.	6,0 Nm	7,0 Nm

Salt Fog (1 mil d.f.t.)	B117	>300 hrs.	>300 hrs.	>300 hrs.
Pumpability				
23°C (73°F)		279 gr/min	n.d.	n.d.
-18°C (0°F)		1 g/min	40 g/min	79 g/min
-23°C (-10°F)		0 g/min	14 g/min	30 g/min
-29°C (-20°F)		0 g/min	7 g/min	16 g/min
-34°C (-30°F)		0 g/min	2 g/min	8 g/min

Characteristics	ASTM Test	Typical Values MOLY-32-0	Typical Values MOLY-32-2
Apearance/Texture		Grey/smooth	Grey/smooth
Molybdenum Disulfide		≥5,0 m%	≥5,0 m%
N.L.G.I. Grade		0	2
Viscosity at 40°C	D445	33.5 cSt	46 cSt
Viscosity at 100°C	D445	5.8 cSt	7 cSt
Viscosity Index	D2270	115	109
Dropping Point	D2265	315°C	315°C
Oil Separation at 25°C	D1742	n.a.	n.a.
Oil Separation at 25°C	FTM-321/ASTM D6184	6.3	2.15

Molybdenum Molecule Size		1.5	1.5
Penetration Cone	D217	355-385	265-295
Consistency 60 X	D217	360	282
Shear Stability 100,000 X	D217	n.a.	n.a.
Shear Stability 10,000 X (50/50 with water)	D217	n.a.	n.a.
Roll Stability	D1831	n.a.	n.a.
Wheel Bearing Leakage	D4290	6 gr	n.a.
Oxidation Resistance (Pressure Drop)			
- 1000 hrs.	D942	n.a.	n.a.
- 500 hrs.		n.a.	n.a.
- 100 hrs.		n.a.	n.a.
Bearing Life	D3527	n.a.	n.a.
4-Ball Wear (75°C, 40 kg, 1200 t/m, 1h)	D2266	n.a.	n.a.
Load Wear Index	D2596	n.a.	n.a.
Weld Load	D2596	n.a.	n.a.
Timken OK Load	D2509	n.a.	n.a.
Rust Preventive	D1743	n.a.	n.a.
Water Spray Resistance at 79°C	D1264	n.a.	n.a.
Corrosion - Copper Strip	D130	n.a.	n.a.
Low Temperature Torque (-40°C)	D4693	n.a.	n.a.
Salt Fog (1 mil d.f.t.)	B117	n.a.	n.a.

Pumpability		LT-37	LT-37
23°C (73°F)		n.d.	n.d.
-18°C (0°F)		84.6 gr/min	1590.6 gr/min
0°C (0°F)		n.a.	n.a.
-23°C (-10°F)		n.a.	n.a.
-29°C (-20°F)		n.a.	1.8(-25°C)
-34°C (-30°F)		n.a.	n.a.
-40°C (-40°F)		16.2 gr/min	n.a.

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