



TOP-5TM

Grease for Heavy Work

Adheres to Metal and Water Resistant

DESCRIPTION

TOP-5 Grease is specifically designed for extra heavy-duty off-highway, mining and marine equipment lubrication. This calcium sulfonate complex grease gives a superior protection from rust and corrosion. **TOP-5 Grease** has excellent extreme pressure and anti-wear properties and exceptional adhesion to metal, even under extreme water wash-out conditions. The result on the water washout test (ASTM D1264), TOP-5 has the best value <1%, this result is better than many other types of grease available on the market today. **TOP-5 Grease** works under harsh operating conditions and resists to sand, contaminants and high temperatures while keeping its excellent structural stability.

- Resists sand and contamination
- Does not contain heavy metals
- Does not leak from the joints
- Excellent anti-wear properties
- Clings to hot and cold metals
- Resists to salt water
- Exceptional extreme pressure resistance
- Resists any diluted alkaline and acid solutions.
- Excellent mechanical stability
- Resists a wide range of temperature
- Very high load carrying
- Does not wash out
- Exceptional protection against corrosion
- Environmentally friendly, **does not contain** antimony, barium, chlorine, phosphorus, zinc or free sulfur.
- When overboard does not create a sheen

APPLICATIONS

TOP-5 provides resistance to very high surface pressure, thus ensuring excellent wear protection. Exceptional protection for heavy duty equipment used in the mining and quarry industry, to lubricate slow-moving plain and rolling element bearings particularly under severe conditions of high level of contamination, water washout, very high loads, shock loading and vibrating or oscillating conditions.

Superior performance for heavily loaded construction equipment, bucket pins, pivot pins earthmoving, mobile and stationery equipment, especially in those applications operating under very high loads, shock loading and vibrating or oscillating conditions.

Off-shore and underwater applications where corrosion and water wash-out is a concern. TOP-5 resists to salt water and provides exceptional adhesion to metal.

TOP-5 provides optimum lubrication to pulp and paper equipment. Resists to alkaline and acid solutions and ensure a good protection from rust and corrosion.

The above information is true and precise to the best of our knowledge. All recommendations or suggestions are made without warranty since the circumstances and conditions are beyond our control.

For further information contact: **Lubri-Lab Inc.:** info@lubrilab.com www.lubrilab.com
1540, de Coulomb, Boucherville QC Canada J4B 8A3
Toll Free Tel.: (888) 449-1626 +1 (450) 449-1626 Fax: +1 (450) 449-9174
ISO 9001. CTPAT certified and validated



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FEATURES AND BENEFITS

Excellent extreme pressure and anti-wear properties, protects heavily loaded or shock-loaded bearings from wear. The extreme pressure test ASTM D2596 has a result of 620 kilos, which is a very good performance.

Excellent water resistance test ASTM D1264 value <1, TOP 5 clings to metal and do not washout. Ensures proper lubrication and protection even in hostile working environments.

Calcium sulfonate soap thickener is naturally rustproofing and provides excellent protection against rusting and copper corrosion ensuring long component life.

Outstanding high-temperature and mechanical stability properties of TOP-5 ensure no breakdown of lubricating film during service, providing optimum lubrication and extending equipment life.

PHYSICAL PROPERTIES

Results

N.L.G.I. Grade	ASTM D217		2
Colour	Visual		Green
Texture	Visual		Smooth
Dropping point	ASTM D2265	Deg. C (+600°F)	+316
MECHANICAL STABILITY			
Consistency @ 25°C (77°F),	ASTM D217	worked penetration, mm/10	280
		Unworked	275
	ASTM D217	Worked Penetration 10,000 Doubles Strokes	< 2
	ASTM D217	Worked 100,000 strokes	< 2
	ASTM D217	Worked Penetration 1,000 Double Strokes with 10% Water, % Change	< 2
Roll Stability	ASTM D1831	% Change	< 2

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EXTREME PRESSURE WEAR PERFORMANCE

Timken ok load	ASTM D 2509	Kg. (80 lb)	30
4 ball E.P	ASTM D 2596	load wear index, Kg. (136lb)	62
		weld point, Kg.(1764 lb)	620
4 ball wear	ASTM D2266	scar diameter, mm.(40 Kg, (88 lb) 1200 rpm, 75°C (167°F), 1 hour)	0.5
Fretting Wear	ASTM D4170	mg,	3.5
Bearing Life Performance	ASTM D3527	Hours	+130
LEAKAGE / SEPARATION			
Oil Separation	ASTM D1742	Mass %. 24 hours @ 25°C (77°F)	< 0.2
Wheel Bearing Leakage	ASTM D4290	grams	< 1

CORROSION RESISTANCE

Bearing Rust Protection	ASTM D1743	rating	Pass
Salt Spray Test Corrosion	ASTM B117	1 mil d.f.t. hours	>1000
Copper Strip Corrosion	ASTM D4048		1b

OXIDATION RESISTANCE

Bomb oxidation	ASTM D942	psi drop 100 hours @ 99°C PSI Drop	< 1
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WATER PERFORMANCE

Water Wash-out	ASTM D1264	79°C (175°F), % loss	<1
Water Spray Off	ASTM D4049	% removed	7

ELASTOMER COMPATIBILITY

ASTM D4289			
AMS 3217 / /b CR Type 70 hours @ 100°C (212°F)			
	Percent Swell		12
	Hardness Change, Durometer type A		-6

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BASE OIL VISCOSITY ASTM D445

Viscosity	cSt @ 40°C (104°F)	220
Viscosity	cSt @ 100°C (212°F)	20
Viscosity Index		111

Emcor Corrosion	ASTM D6138	3% NaCl	2,2
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NSF International: Category H-2, Registration Number 137390.
 CFIA *Canadian Food Inspection Agency*. Avoid direct contact with food. File number: /L125.

Availability: 400 g x 50 tubes per case, 15.87 kilos, 55 kilos and 180 kilos.
 12 oz x 50 tubes per case, 35 lb, 121 lb, 400 lb.

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