



PRODUCT DATA SHEET



MOLYLUBE® SF 100 SEMI-SYNTHETIC OPEN GEAR LUBRICANT

Molylube SF 100 Semi-Synthetic Open Gear Lubricant, commonly known as Molylube SF 100, is an extremely versatile, multi-service and environmentally friendly lubricant. **Molylube SF 100 Semi-Synthetic Open Gear Lubricant** is a semi-synthetic base fluid and aluminum complex thickener. **Molylube SF 100 Semi-Synthetic Open Gear Lubricant** provides excellent Extreme Pressure, anti-wear and rust and corrosion protection under the tough conditions associated with mining and heavy industry. **Molylube SF 100 Semi-Synthetic Open Gear Lubricant** is superior mining lubricant. In field evaluations **Molylube SF 100 Semi-Synthetic Open Gear Lubricant** has been shown to have a cost-of-ownership up to 35% lower than the competition when purchase price, lubricant consumption and component life extension is considered.

Applications

- ◆ Draglines and shovels – open gears, bushings, plain bearings, rollers and rails, dipper sticks and handles, some propel mechanisms
- ◆ Mills and kilns – open gears
- ◆ Open gear and sliding surface priming lubricant (Grades – Heavy and Extra Heavy)
- ◆ General industrial open gears, pins and bushings and sliding surfaces

Features and Benefits

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| ◆ Multi-service capabilities | A single lubricant that can provide superior protection in a wide range of shovel and dragline applications from open gears to some walk mechanisms. |
| ◆ Reduced consumption | Lower lubrication costs, minimizes clean-up and disposal costs. |
| ◆ Outstanding anti-wear properties | Extends component life, greatly reducing operating costs. |
| ◆ Outstanding mobility and pumpability | A grade to lubricate through the temperature extremes from the Arctic to the Sahara. |

General Description

Molylube SF 100 Semi-Synthetic Open Gear Lubricant is an extremely versatile, multi-service and environmentally friendly lubricant. **Molylube SF 100 Semi-Synthetic Open Gear Lubricant** is designed for use on draglines, shovels, mills, kilns and many heavy industrial applications.

Product No. 77070, 77020, 76850, 76990, 77010, 77000, 77030, 77080

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With continual research and development, Bel-Ray Company reserves the right to change the information contained herein. The Company is not responsible for misuse or misapplication of its products.

2/27/2015

MOLYLUBE® SF 100 SEMI-SYNTHETIC OPEN GEAR LUBRICANT

TYPICAL PROPERTIES

<u>Product No.</u>	<u>77070</u>	<u>77020</u>	<u>76850</u>
Bel-Ray Name Grade	Sub-Arctic	Arctic	Low Temp
Penetration, unworked, ASTM D217 mm/10 (pre-dilution)	370	370	370
Apparent Viscosity (Brookfield), ASTM D2196 @ 25°C (77°F), cP	11,000	20,000	Solvent Free
Thickener Type	Aluminum Complex	Aluminum Complex	Aluminum Complex
Viscosity (Base Fluid), ASTM D445 @ 40°C, cSt	707	707	707
@ 100°C, cSt	40	40	40
Viscosity, (Base Fluid), ASTM D2161 @ 100°F, SUS	3821	3821	3821
@ 210°F, SUS	188	188	188
Copper Strip Corrosion, ASTM D4048 24 hrs @ 100°C, rating	1b	1b	1b
4-Ball EP Test (Pre-dilution), ASTM D2596 Weld Load, kg	≥800	≥800	--
Load Wear Index, kg	160	160	--
4-Ball EP Test, ASTM D2596 Weld Load, kg	--	--	≥800
Load Wear Index, kg	--	--	160
Useful Temperature Range °C	-45 to +10	≥-35	≥-18
(°F)	(-49 to +50)	(≥-31)	(0)
Color	Black	Black	Black

MOLYLUBE® SF 100 SEMI-SYNTHETIC OPEN GEAR LUBRICANT

TYPICAL PROPERTIES

<u>Product No.</u>	<u>76990</u>	<u>77010</u>	<u>77000</u>	<u>77030</u>	<u>77080</u>
Bel-Ray Name Grade	Light	Medium	Heavy	Ultra Heavy	Extra Heavy
Penetration, unworked, ASTM D217 mm/10 (pre-dilution)	370	370	370	420	370
Apparent Viscosity (Brookfield) ASTM D2196, @ 25°C (77°F), cP	20,000	Solvent Free	Solvent Free	11,000	Solvent Free
Thickener Type	Aluminum Complex	Aluminum Complex	Aluminum Complex	Aluminum Complex	Aluminum Complex
Viscosity (Base Fluid), ASTM D445 @ 40°C, cSt	1860	1860	3675	3675	5175
@ 100°C, cSt	77.2	77.2	145	145	177
Viscosity, (Base Fluid), ASTM D2161 @ 100°F, SUS	10210	10210	20157	20157	28536
@ 210°F, SUS	375	375	705	705	863
Copper Strip Corrosion, ASTM D4048 24 hrs @ 100°C, rating	1b	1b	1b	1b	1b
4-Ball EP Test (Pre-dilution) Weld Load, kg	≥800	--	--	≥800	--
Load Wear Index, kg	160	--	--	160	--
4-Ball EP Test, ASTM D2596 Weld Load, kg	--	≥800	≥800	--	≥800
Load Wear Index, kg	--	160	160	--	160
Useful Temperature Range °C	≥-28	≥0	≥10	≥-15	≥25
(°F)	(≥-18)	(≥32)	(≥50)	(≥5)	(77)
Color	Black	Black	Black	Black	Black