



## **TECHNICAL DATA**

102 Barton Street, St. Louis, Missouri 63104

In-State (314) 865-4100/Out of State 800-325-9962/Fax (314) 865-4107 <http://www.schaefferoil.com>

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### **#213 MOLY LIQUID CHAIN LUBE**

Moly Liquid Chain Lube is an extreme pressure liquid chain lube that is specially formulated to lubricate slow to moderate moving chains found in automotive, industrial, construction and mining applications.

Moly Liquid Chain Lube is compounded from the finest high viscosity index solvent refined severely hydrotreated 100% paraffin base stocks available and a combination of special friction releasing and extreme pressure additives, and rust and corrosion inhibitors. This unique formula provides the following performance benefits:

1. **Rapid and maximum penetration into the pins and bushings reducing wear, chain stretch and dripage of the product into processing and production areas.**
2. **Rapid penetration into the pins and bushings and the pores of the metal surfaces of the chains in order to help free frozen chains and prevent new chains from freezing.**
3. **Elimination of contamination buildup.**
4. **Quickly produces flexible chain action.**
5. **Elimination of chain stick/slip motion.**
6. **Superior rust and corrosion protection.**
7. **Formation of a protective layer that rejects abrasive particles such dirt, sand and salt.**
8. **Excellent displacement of moisture.**
9. **Formation of a protective barrier against moisture.**
10. **Superior extreme pressure and anti-wear properties that increases chain life and reduces downtime.**
11. **Elimination of any residual oils or residues that can pick up dust or dirt.**
12. **Quieting and elimination of noisy chains.**
13. **Will not affect any seal materials and coatings**
14. **Will not swell or shrink O-rings**

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Further blended into this unique formula is molybdenum disulfide. The molybdenum disulfide adheres to the metal surfaces forming an indestructible long lasting solid lubricant film. This long lasting solid lubricant film resists removal by water and heat and is capable of withstanding pressures up to 500,000 pounds per square inch. This solid lubricant film also reduces the friction on the pins, rollers and bushings, thus allowing the life of the chain and the sprockets to be consistently tripled.

Moly Liquid Chain Lube also contains a tackiness additive which allows the Moly Liquid Chain Lube to hang on the chains during use, thus preventing sling off and dripping.

The viscosity of Moly Liquid Chain Lube #1 is ISO 150, while the viscosity of the Moly Liquid Chain Lube #2 is ISO 460.

### Typical Properties

	#1	#2
API Gravity 60°F, ASTM D-287	26	27
Specific Gravity 60°F	.8984	.8927
ISO Grade	150	460
AGMA Grade	4 EP	7 EP
Viscosity SUS 100°F, ASTM D-445	833.6	2118.9
Viscosity SUS 210°F, ASTM D-445	75.5	123.1
Viscosity cSt 100°F, ASTM D-445	179.93	457.41
Viscosity cSt 210°F, ASTM D-445	14.39	25.66
Viscosity cSt 40°C, ASTM D-445	157.58	442
Viscosity CSt 100°C, ASTM D-445	13.96	24.78
Viscosity Index, ASTM D-2270	98	100
Flash Point °F/°C, ASTM D-92	480°/249°	510°/265.5°
Fire Point °F/°C, ASTM D-92	530°/277°	540°/282.2°
Pour Point °F/°C, ASTM D-97	10°/-12.22°	25°/-3.89°
Timken EP Test ASTM D-2782		
Ok load, lb.	65	65
Four Ball EP Test ASTM D-2783		
Weld Point, kg	315	315
Load Wear Index, kg.	45	45
Four Ball EP Test ASTM D-2266		
Scar Diameter, mm	.51	.51
Copper Strip Corrosion Test		
ASTM D-130	1a	1a
Rust Test ASTM D-665		
Procedure A (Distilled Water)	Pass	Pass
Procedure B (Salt Water)	Pass	Pass