



# PRODUCT DATA SHEET



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## MOLYLUBE® SYNTHETIC ESTER CHAIN LUBRICANT

**Molylube Synthetic Ester Chain Lubricant**, commonly known as Molylube MD-88-E Fluid, is an ester-based synthetic chain lubricant with suspension grade molybdenum disulfide and graphite. It is specifically formulated for heavy-duty, high temperature chain applications. When applied to a chain, **Molylube Synthetic Ester Chain Lubricant**'s synthetic fluid containing finely divided solid lubricants coats the chain and penetrates to lubricate and protect the sprockets, links, and the pins and bushings. The product's solid lubricants provide positive lubrication if the chain becomes dry at elevated temperatures and effectively lubricates up to 399°C (750°F). **Molylube Synthetic Ester Chain Lubricant** features a remarkably stable base fluid and a unique blend of Extreme Pressure and anti-wear additives to protect against shock load conditions. **Molylube Synthetic Ester Chain Lubricant** is an exceptional chain cleaner, because it cleans old deposits and prevents the formation of new deposits.

### *Applications*

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- |                              |                       |
|------------------------------|-----------------------|
| ◆ Metal decorating plants    | ◆ Curing oven chains  |
| ◆ Lithographing coater ovens | ◆ Tenter frame chains |
| ◆ Drying oven chains         | ◆ Rolling chains      |

### *Features and Benefits*

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| ◆ Contains colloidal Molylube solids                         | Solids remain suspended for an indefinite period of time.                |
| ◆ Extreme pressure properties and excellent wear protections | Prevents excessive wear under high- or shock load conditions.            |
| ◆ Resists oxidation  | Reduces sludge build-up under high operating temperature.                |
| ◆ Synthetic carrier  | Excellent thermal stability.   |
| ◆ USDA H2 rated  | Acceptable in food plants where there is no possibility of food contact. |

### *General Description*

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**Molylube Synthetic Ester Chain Lubricant** is an ester-based synthetic chain with suspension grade molybdenum disulfide, or moly, and graphite. **Molylube Synthetic Ester Chain Lubricant** is an exceptional chain cleaner; it cleans old deposits and prevents the formation of new deposits. **Molylube Synthetic Ester Chain Lubricant** can be used to temperatures of 246°C (475°F).

### *Product No. 301683*

**MOLYLUBE® SYNTHETIC ESTER CHAIN LUBRICANT**  
**TYPICAL PROPERTIES**

<b><u>Product No.</u></b>	<b><u>301683</u></b>
<b><u>Old Product No.</u></b>	<b><u>20750</u></b>
ISO Viscosity Grade	150/220
Viscosity, ASTM D445	
@ 40°C, cSt	193
@ 100°C, cSt	15.5
Viscosity, ASTM D2161	
@ 100°F, SUS	1027
@ 210°F, SUS	81.9
Viscosity Index, ASTM D2270	77
Pour Point, ASTM D97	
°C	-29
(°F)	(-20)
Lubricating Solids Type	Molylube Solids
Falex EP Test, ASTM D3233 Method B	
Non-seizure Load, lbf	2250
Flash Point, ASTM D92	
°C	282
(°F)	(540)
Useful Temperature Range	
Fluid, °C	-23 to 246
Fluid, (°F)	(-10 to 475)
Dry Film, °C	246 to 399
Dry Film, (°F)	(475 to 750)
Specific Gravity, ASTM D1298, 60/60°F	0.973
Color	Dark Gray