



Molysyn Manufacturing Co.

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# TECHNICAL DATA

102 Barton Street, St. Louis, USA

## # 705 SUPREME SYNTHETIC LONG LIFE PETROL ENGINE OIL

**M-705** – 20w50 Is a premium quality multi-grade synthetic blend engine oil, specifically designed to meet all Engine Manufacturers warranty requirement of Gasoline (Petrol) Engine.

### FEATURES:

**M-705** – Is truly multi-purpose for all seasons with highly refined paraffinic base oil provide excellent performance to maximize engine service life.

- Ultra – Low Ash; is fortified with exclusive additive that help minimizes ash deposits, keep combustion chamber and valve surface clean.
- High Alkaline Reserve (TBN): It is effectively neutralizes corrosion acids to protect bearings and other vital engine parts.
- Effective detergent keeps engine parts clean, minimize carbon, sludge and varnish formation, extends filters life and reduces oil thickening.
- Specially fortified with anti-scuff additives to minimizes friction and wear in rings, cylinders, bearings, timing gears, valves, and all other moving metal parts.
- The exclusive additive also form an oiliness protective film on moving parts to reduce friction and drag, therefore reduce fuel consumption.
- Viscosity index improver which will not make the oil thinning during high temperature and thicken during low temperature.
- **Superior Cold Weather Startability and Operating characteristics** which results in less friction and lubricant drag in the engine and instant lubrication during cold weather start-up.
- **Superior Oxidative Stability:** Any oil as it is increasingly exposed to high temperature operation undergoes the process of oxidation. This results in the oils thickening and the buildup of acidic components, because of PAO's and 100% paraffin base oil's uniform molecular structure, the process of oxidation is greatly reduced. And excellent resistance to thermal degradation.

### PRODUCT INFORMATION:

**M-705-20w50:** Blended into the 100% Pure Paraffin base stocks and polyalphaolefin base fluids is a highly specialized performance additive package and a highly shear stable viscosity index improver is a proven frictional modifier, Micron Moly a liquid soluble type of moly that plates to the metal surfaces of the engine. Once plated, the moly forms a long lasting lubricant film, which prevents the metal surfaces from coming into contact with each other. By preventing metal-to-metal contact, damaging frictional wear is eliminated, thus leading to less downtime and longer engine life.

**FRICION & HEAT REDUCTION:** The Moly's solid lubricant film also helps to reduce friction. The reduction in friction results in reduced wear and reduction in contact area temperatures. This in turn leads to increased equipment life, less downtime and extended lubrication cycles.



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## RECOMMENDED:

Recommended for most Gasoline (Petrol) Engines, Over the Road or Off Road, also for Construction, Mining, Agricultural, Marine and Power Plant equipment. **M-700-20w50** meets and exceeds the following specifications and manufacturers requirements: MIL-46152E, CID A-A-52039B, API Service Classification SL, Ford M2C153-G, ESR-M2C127-B, ESR-M2C179A, SSM 29011-A, General Motors, ACEA A1-02, A2-96 Issue 2, A3-02, A5-02; Daimler Chrysler 229.3, MS9767, JASO JIS K2215.

## TYPICAL SPECIFICATIONS:

SAE Grade	20w50
Gravity API	29.0
High Temperature/High Shear Viscosity 302 F/150 C, cP (ASTM D-4683)	4.55
Cold Cranking Viscosity (ASTM D-5293) @ -15 c, Cp	2,950
Mini Rotary Viscosity TP-1 @ -20, cP (ASTM D-4683)	18,900
MRV Borderline Pumping Temperature F/C (ASTM D-4683)	-15/- 26.11
Scanning Brookfield Gelation Index @ -11 F/-24 C	3.9
Flash Point F/C (ASTM D-92)	465/204.56
Fire Point F/C (ASTM D-92)	505 /262.78
Stable Pour Point F/C (FTM 7916 Method 203)	<-41 / <-42
Total Base Number (ASTM D-2896)	7.1
Cst 40 C (ASTM D-445)	129.5-166.5
Cst 100 C (ASTM D-445)	16.5-20.00
Viscosity Index (ASTM 2270)	140
Copper Strip Corrosion Test (ASTM D-130)	1a
Shear Stability (ASTM D-3945 Procedure A) % viscosity loss	5
Volatility 700 F % Evaporation Loss (ASTM D-2887)	8.8
NOACK Volatility % Evaporation Loss (ASTM D-5800)	10.5