



**SYNMAX™ MEDIUM DUTY SYNCHROMESH & MANUAL TRANSMISSION FLUID SAE 50**

**TECHNICAL DATA SHEET – PRODUCT NUMBER 450050**

**SynMax™ Medium Duty Synchronesh & Manual Transmission Fluid Product Information:**

**Applications & Use:**

- Medium / Heavy Duty & Standard Manual Transmission Fluid SAE W50 (equal to W90 Gear Lube).
- Synchronesh, Manual Transmission or Transaxle Type Applications 500 - 800 HP.
- Transaxle Applications calling for Synchronesh Type Fluid SAE 50.
- Product should be used for suggested and intended design application(s) only.
- **NASCAR – LATE MODEL SHORT TRACK HI PERFORMANCE MANUAL TRANSMISSION.**
- **BRINN 2 Speed Direct Drive Late Model Type Transmission (600-800 HP).**
- **Sports Car heavy weight transaxle or transmission application (250 - 800HP).**

**Features & Benefits:**

- Aerospace Advantages to increase metal surface technology and component durability through Diamond Like Additive™ Technology (DLA) providing a solid film lubricant with plating action.
- Premium SynMax™ aerospace high temperature anti-wear formulation technology.
- Protects during short term oil starvation periods.
- Crawls, sticks and adheres upon gear / metal surfaces.
- Minimizes frictional resistance, parasitic drag & gear contact wear.
- Reduces operation temperatures (20°F - 40°F) as compared to other transmission fluids.
- Advanced synthetic formulation provides maximum low temperature fluidity as well as high temperature stability.
- Maximizes High temperature/high shear performance protection upon synchronesh gear, standard gear, bearing and overall transmission components.
- Component protection as fluid with DLA additive formulation flows through the gear and bearing parts, from low to high RPM requirements.
- Seal conditioning, anti-foam and oxidation additives & inhibitors.
- Compatible with all types of Buna seals, other seals & silicone materials. Does not include friction modifiers for clutch material facings

**Key Features and Benefits Include:**

<b>Features</b>	<b>Advantages and Potential Benefits</b>
PAO & Synthetic Base Oils.	Viscosity stability during low and high temperature needs for premium lubrication performance.
Diamond Like Additives	Diamond Like Additive™ (DLA) Technology enhances metal surface on a nano dimension basis to increase component durability and decrease friction greatly.
Extra anti-wear additives	Excellent protection upon gear, bearings and metal surfaces during standard, medium duty, heavy duty and racing/severe duty applications.



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**Typical Properties:**

<b>SynMax™ Medium Duty Synchronesh &amp; Manual Transmission Fluid SAE 50</b>	
SAE Grade	W50
Viscosity, ASTM D 445 cSt @ 40° C	199
Viscosity, ASTM D 445 cSt @ 100° C	16
Pour Point	-40F
Flash Point	460F

Due to continual product research and development, the information contained herein is subject to change without notification. Typical Properties may vary slightly.

Synchronesh fluid formulated products are created for planetary gear or “straight cut-gear” design applications. This means the lubrication fluid goes into the smallest points of the straight and rolling gear surface areas, while working together with the other synchronesh components etc. Synchronesh fluid is not designed for differential / ring and pinion commonly called “worm-gear” applications. Differential / ring and pinion applications require a quality gear lube with extreme pressure additives to provide the correct oil film or “hydrodynamic” strength (because of the extreme crushing effect) within the worm gear surface contact area to insure success and help prevent failure.

Note: It is further suggested for the customer (as time permits) to have one additional session for final break-in – Using Titan Break-In Gear Lube to mate parts together and importantly cleanse components of metal particles and contaminates, before the use of Titan Performance Lubricants either competition racing or other use.

**Health and Safety:**

Based on available information, this product is not expected to produce adverse effects on health when used for the applications referred to above and the recommendations are followed as provided in the Material Safety Data Sheet (MSDS). MSDS's are available upon request through your local dealer, or via the Internet. This product should not be used for purposes other than the applications referred to above. If disposing of used product, take care to protect the environment. Always keep from the reach of children.

**SynMax Performance Lubricants Distributed by:**

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