



SYNTHETIC RACING MOTOR OIL 5W-20

TECHNICAL DATA SHEET – PRODUCT NUMBER 640520

SynMax™ Synthetic Racing Motor Oil Product Information:

- SynMax™ Synthetic Racing Oil is a premium formulation, utilizing Aerospace Advantages to increase metal surface and component durability through Diamond Like Additive™ (DLA) Technology, which provides superior surface enhancements through solid film lubricant and plating action. SynMax™ advanced formulation for anti-wear protection burns cleaner within the combustion chamber area; reducing “anti-spark detonation” from critical hot spot deposits.

Applications & Use:

- Naturally Aspirated, Turbo-Charged or Super-Charged Engines.
- Engine Bearing Clearances: UNDER .0025. Oil Operation Temperatures: 230°F - 250°F
- **SPECIFICALLY FOR PROFESSIONAL USE IN COMPETITION RACE ENGINES ONLY.**
- **EXTREME PERFORMANCE, OFF ROAD, GASOLINE RACING APPLICATIONS.**
- NOT STREET LEGAL.(for street applications use SynMax™ Street & HD Performance Motor Oil)

Racing Motor Applications where a SAE W20 is suggested:

- Grand National / NASCAR Cup Open (Unrestricted) or ONLY as suggested by engine builder.
- Formulation design for 500 miles of competition @ 9800+ rpm

Features & Benefits:

- Diamond Like Additive™ (DLA) Technology historic testing shows overall co-efficient friction performance improvements (.5%-2% HP) as compared when moly type additives are used alone.
- Co-Efficient Friction Differences: Diamond Like Additive™ (DLA) Technology 0.025 vs. Moly 0.08.
- SynMax™ advanced proprietary formulation enhances the Zinc (ZDDP) anti-wear protection; allowing the oil to operate and burn much cleaner within the combustion chamber (normally from blow-by). Cleaner combustion operations helps prevent “hot spot deposits” upon the piston crown, spark plug & valve face areas; greatly reducing the possibility of “deposit pre-detonation”.
- Highest allowable anti-wear formulation percentage (up to double + the amount of major and specialty brand competition racing oils) requiring no additional additive treatments.
- Excellent protection for flat tappet, roller cam and valve train, rolling or sliding components.
- SynMax™ advanced synthetic base oil formulation provides maximum low temperature flowability as well as extreme operating temperature stability. SynMax™ flows through engine parts, for low to high RPM requirements. Superior oil film (hydrodynamic) protection with high temperature / high shear strength performance.

Engine Oil Pre-Heat for Improved Racing Performance:

- Maximum performance effectiveness before competition use; pre-heat motor oil 100°F to 150°F. Under extreme NASCAR type pre-qualify conditions, controlled short term pre-heat up to 300°F.

Oil Filter Selection:

- 15+ Gallon Per Minute (GPM) specification with a 1N/primary spin on paper filter is required for premium racing oil filtration, volume and temperature performance for synthetic type base oils.



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Engine Break-in Oil Session(s) before using Synthetic Racing Oil:

- Use SynMax™ Break-In Motor Oil 10W45 for proper break-in requirements. After engine final break-in sessions completed, hot drain oil & change filter refill with SynMax™ Racing Motor Oil

Key Features and Benefits Include:

Features	Advantages and Potential Benefits
PAO & Synthetic Base Oils.	Provides excellent viscosity stability and lubrication performance durability under standard, heavy duty and extreme racing requirements.
DLA & SynMax™ anti-wear additives	Aerospace Advantages utilizing Diamond Like Additive™ (DLA) and SynMax™ technology, providing superior protection upon bearings and component surfaces. Increased co-efficient friction performance as compared to using moly additives alone.
Heavy Duty Detergent additives	Outstanding performance to cleanse and suspend metal particles or other contaminants to be further flushed away at hot oil drain and oil filter change.

Typical Properties:

SynMax™ Synthetic Racing Motor Oil	
SAE Grade	5W-20
Viscosity cSt @ 40° C	50
Pour Point	-49°F
Flash Point	450°F

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

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 within the Material Safety Data Sheet (MSDS). MSDS's are available via Internet or upon request through your local dealer. 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 out of the reach of children.

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