



SYNMAX™ RACING PERFORMANCE MOTOR OIL 20W50

TECHNICAL DATA SHEET – PRODUCT NUMBER 682050

SynMax™ Racing Performance - Competition Motor Oil Product Information:

- SynMax™ Racing Synthetic / Petroleum Blend - Performance Motor Oil is a special competition formulation, utilizing Aerospace Advantages to increase metal surface and component durability through Diamond Like Additive™ (DLA) / PolyX Nano-Technology, which provides superior surface enhancements through solid film lubricant & plating action while providing the lowest co-efficiency performance and protection.

Applications & Use:

- Designed for 20W50 specifications as suggested by engine builder.
- Naturally Aspirated, Turbo-Charged or Super-Charged .Bearing Clearances: **.0025 - .0030**
- **Extreme Duty Highest Temp. Applications** with Oil Operation Temperatures: **220°F - 270°F**
- **SPECIFICALLY FOR PROFESSIONAL USE IN OFF ROAD COMPETITION RACE ENGINES.**
- NOT STREET LEGAL. (street applications use SynMax™ Street & HD Performance Motor Oil)

Racing Motor Applications where a SAE 20W50 is suggested:

- Engines: V8 Big & Small Block, V6 & 4 Cylinder and V-Twin Type Motorcycle Design.
- Formulation design for applications which requires increased oil pressure and film strength.

Features & Benefits:

- Diamond Like Additive™ (DLA) / PolyX Aerospace Nano-Technology provides the lowest co-efficient friction performance as compared to Moly / ZDDP (high zinc) additives alone.
- Co-Efficient Friction Differences: Diamond Like Additive™ (DLA) / PolyX 0.20 vs. Moly 0.80.
- Sticky & Tacky to crawl on parts when cold with polar properties to stay on parts longer when hot.
- SynMax™ advanced proprietary formulation enhances high Zinc/ (ZDDP) anti-wear protection; allowing oil to operate & burn much cleaner within 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 additive protection amount of major and specialty brand competition racing oils) requiring no additional treatments.
- Excellent protection for flat tappet, roller cam and valve train, rolling or sliding components.
- SynMax™ advanced performance 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.

Oil Filter Selection:

- 15+ Gallon Per Minute (GPM) 100% filtration 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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Key Features and Benefits Include:

Features	Advantages and Potential Benefits
PAO & Aerospace Base Oils.	Syn. / Petro Base oils with PolyX Viscosity stability additives work during low & high temperature requirements for premium flow and hydrostatic bearing protection.
DLA & SynMax™ anti-wear additives	Aerospace Advantages utilizing Diamond Like Additive™ (DLA) with SynMax™ technology, providing superior anti-wear protection upon bearings and component surfaces. Increased co-efficient friction performance .
Racing Detergent Formulation	Outstanding detergent & base oil performance to cleanse contaminants & suspend metal particles. Varnish protection for oil to flow properly through oil passages - metal surfaces to remain clean - which helps the motor to operate cooler & more efficiently.

Typical Properties:

SynMax Racing Performance Motor Oil #682050	
SAE Grade	20W50
Viscosity cSt @ 40° C	166
Pour Point	-35°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.

SynMax Performance Lubricants Distributed by:

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