



BREAK-IN MOTOR OIL SAE 10W-45

TECHNICAL DATA SHEET - PRODUCT NUMBER 181045

SynMax™ Break-In Motor Oil Product Information:

SynMax Break-In Oil is specifically designed for Engine Builder Dyno and Customer Break-In, Power-Up, and Final Engine Cleansing procedures. Premium Petroleum Base Oil with highest allowable amounts of Zinc/Phosphorus (ZDDP), Special Detergency & Parts Mating additives for high performance protection.

Break-In session with the SynMax™ Break-In formulation evens out the micro sized peaks and valleys of the mating parts for increased performance and durability.

Applications & Use:

- General purpose engine builder dyno oil or customer uses after engine build completion / delivery.
- Hi-Performance, Heavy Duty, Racing, Standard applications 100HP to 1500HP+.
- **FORMULATED SPECIFICALLY FOR SHORT TERM BREAK-IN SESSION(S) ONLY –**
- **NOT FOR LONG TERM PERIODS OF USE (1 – 2 HOURS ONLY).**
- **AFTER BREAK-IN PERIOD SESSION HOT DRAIN OIL AND CHANGE OIL FILTER.**
- **IMMEDIATELY USE NEW OIL FILTER AND FILL/REPLACE WITH SYNMAX – SYNTHETIC PERFORMANCE OR RACING MOTOR OILS AS REQUIRED.**

Features & Benefits:

- Highest allowable Zinc/Phosphorus (ZDDP) with special designed break-in formulation.
- Requires no additional protection additives.
- Promotes piston ring / cylinder wall sealing & cam / follower mating requirements.
- MAXIMUM protection during flat tappet, roller cam & valve train Break-In procedures.
- 100% Paraffin Petroleum Base Oil shall flow through the engine parts, from low to high RPM requirements. With high temperature/high shear performance in order to create excellent oil film thickness and engine protection at standard and extreme operating temperatures, while minimizing lubricant frictional resistance upon bearings and other rolling or sliding components.
- Specific detergency package; cleanses metal surface of particles, and other contaminants both large and small; suspending particles and contaminants within the oil through suggested break-in procedures; further to be flushed away at hot oil drain & filter change.
- Maximum effectiveness pre-heat the Break-In Motor Oil minimum 100F up to 150F before use.
- If engine requires one additional quart of oil (you need 5 quarts and only have one gallon or 4 quarts of SynMax Break In Oil) you can use one quart of a premium petroleum oil without problem since the additive package is so strong – additional quart will not reduce effectiveness.
- Note: Even if the OEM or engine builder provides the engine with testing procedure or dyno power up / break-in time, it is further suggested for the end user (as time permits) to have one additional session for final break-in to power up the engine and most importantly cleanse the engine of continued particles and contaminants, before the use of SynMax Performance Lubricants either Competition Racing or Street Use



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Key Features and Benefits Include:

Features	Advantages and Potential Benefits
Premium Petroleum Base Oil.	Provides viscosity stability and lubrication performance durability during standard and extreme Break-In or Power-Up requirements.
Heavy Duty Detergent additives	Outstanding performance to mate, cleanse and suspend metal particles with contaminants to be further flushed away at hot oil drain and oil filter change.
Extra anti-wear additives	Excellent protection upon bearings and mating parts during standard & extreme Break-In or Power-Up procedures.

Typical Properties:

Break-In Motor Oil	
SAE Grade	10W-40
Viscosity, ASTM D 445 cSt @ 40° C	90-93
Viscosity, ASTM D 445 cSt @ 100° C	12.0-13.5
Viscosity Index, ASTM D 2270	145
Pour Point	-25F
Flash Point	442F

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 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.

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