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DATA SHEET

# DOMINATOR® Synthetic Racing Oil




AMSOIL DOMINATOR® Synthetic Racing Oil is designed to protect high-performance racing applications operating on the ragged edge. DOMINATOR is engineered to withstand the elevated rpm, high temperatures and shock-loading common to racing applications. Its robust formulation is lab-crafted to provide maximum horsepower without sacrificing engine protection and has it been tested and validated by championship-winning race teams. DOMINATOR provides straight-grade protection in a multi-grade formulation.

*AMSOIL, the leader in automotive synthetic lubrication, produced the world's first API-qualified synthetic motor oil in 1972. Trust the extensive experience of AMSOIL,* The First in Synthetics,® *to do the best job protecting your race engines.*

## Fights Engine Wear

DOMINATOR Synthetic Racing Oil's durable formulation resists viscosity loss due to mechanical shear to maintain a strong protective oil film. It is heavily fortified with zinc and phosphorus anti-wear additives to provide additional protection against scuffing and wear in severe racing conditions.

## Maximizes Horsepower

DOMINATOR is formulated with proprietary friction modifiers to reduce energy lost to friction. It delivers maximum horsepower and cooler engine temperatures, promoting improved lap times and longer-lasting components.

## Excellent All-Temperature Performance

DOMINATOR provides maximum protection in temperature extremes. Its low pour point offers excellent startup protection and provides less drag when the oil has not reached stable operating temperatures. At elevated operating temperatures, it maintains superior film strength. DOMINATOR's thermally stable synthetic chemistry resists the effects of intense heat common to racing engines to provide reliable protection for the duration of the race.

## Commercial Availability

Many oil companies produce specialty racing oils for elite groups and do not offer them to the general public. For example, several popular oil manufacturers produce racing oils offered only to NASCAR* teams. DOMINATOR Synthetic Racing Oil is already formulated to a high level of performance. It provides maximum performance and superior protection to all racers, regardless of their competition level. The same DOMINATOR Synthetic Racing Oil that is used in the engines of AMSOIL corporately sponsored racers, including Bryce Menzies and Brad Lovell, is available to everyone.

- **Formulated** specifically for high-performance racing engines
- **Robust** formulation resists viscosity loss
- **Proprietary** friction modifier maximizes horsepower & torque
- **Fortified** with anti-wear additives for extra protection

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## TYPICAL TECHNICAL PROPERTIES

DOMINATOR® Synthetic Racing Oil

| | 5W-20 (RD20) | 10W-30 (RD30) | 10W-40 (RD40) | 15W-50 (RD50) | SAE 60 (RD60) |
|---|---|---|---|---|---|
| Kinematic Viscosity @ 100°C, cSt (ASTM D445) | 9.1 | 11.4 | 15.8 | 17.9 | 25.0 |
| Kinematic Viscosity @ 40°C, cSt (ASTM D445) | 51.5 | 70.3 | 97.2 | 121.0 | 184.3 |
| Viscosity Index (ASTM D2270) | 159 | 156 | 174 | 164 | 168 |
| CCS Viscosity cP (°C) (ASTM D5293) | 5347 (-30) | 5381 (-25) | 6493 (-25) | 6062 (-20) | 5610 (-15) |
| Pour Point °C (°F) (ASTM D97) | -48 (-54) | -42 (-44) | -42 (-44) | -38 (-36) | -38 (-36) |
| Flash Point °C (°F) (ASTM D92) | 230 (446) | 228 (442) | 224 (435) | 238 (460) | 246 (475) |
| Fire Point °C (°F) (ASTM D92) | 254 (489) | 248 (478) | 232 (450) | 272 (522) | 280 (536) |
| Four-Ball Wear Test (ASTM D4172 @ 40 kg, 150°C, 1800 rpm, 1 hr), Scar, mm | 0.40 | 0.39 | 0.39 | 0.39 | 0.38 |
| Total Base Number | 8.0 | 8.0 | 8 | 8.0 | 8.0 |
| High-Temperature/High-Shear Viscosity 150°C, 1.4 x $10^6 s^{-1}$, cP (ASTM D5481) | 3.1 | 3.7 | 4.6 | 5.4 | 7.7 |

## APPLICATIONS

DOMINATOR Synthetic Racing Oil is compatible with leaded and unleaded gasoline, diesel, alcohol, nitromethane and nitrous oxide.

Use **DOMINATOR 5W-20 Synthetic Racing Oil** in domestic and import high-performance racing engines where an SAE 20 viscosity oil is suitable, including (not limited to):

- Modified small-block
- Asphalt late model
- Bracket
- Midget

Use **DOMINATOR 10W-30 Synthetic Racing Oil** in domestic and import high-performance racing engines where an SAE 30 viscosity oil is suitable, including (not limited to):

- Asphalt late model
- Dirt late model
- Modified big block
- Modified small block
- GM* crate late model
- Marine
- Sprint

Use **DOMINATOR 10W-40 Synthetic Racing Oil** in domestic and import high-performance racing engines where an SAE 40 viscosity oil is suitable, including (not limited to):

- Asphalt late model
- Dirt late model
- Modified big block
- Modified small block
- GM* crate late model
- Marine
- Sprint
- Aluminum block

Use **DOMINATOR 15W-50 Synthetic Racing Oil** in domestic and import high-performance racing engines where an SAE 50 viscosity oil is recommended, including (not limited to):

- Asphalt late model
- Dirt late model
- Modified big block
- Endurance
- Rally
- Sprint
- Truck-pull
- Aluminum block
- Marine
- Diesel racing

Use **DOMINATOR SAE 60 Synthetic Racing Oil** in domestic and import high-performance racing engines where an SAE 60 viscosity oil is recommended, including (not limited to):

- Drag racing
- Top fuel
- Pro-stock tractor pull
- Diesel racing

Oil Analyzers Inc.® (715-395-0222) is a division of AMSOIL that provides cost-effective, quality oil analysis services.

## SERVICE LIFE

Consider the event, application and viscosity needs. When competing, the vehicle owner is responsible for determining an appropriate oil service interval. DOMINATOR is not intended for long-term use in passenger cars/light trucks.

## HEALTH & SAFETY

This product is not expected to cause health concerns when used for the intended application and according to the recommendations in the Safety Data Sheet (SDS). An SDS is available at AMSOIL.com or upon request at (715) 392-7101. **Keep Out of Reach of Children.** Don't pollute. Return used oil to collection centers.

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AMSOIL The First in Synthetics®

AMSOIL products and Dealership information are available from your local full-service AMSOIL Dealer.

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