

## VALVOLINE™ VR-1 SYNTHETIC RACING MOTOR OIL

Valvoline VR-1 Synthetic Racing Motor Oil is a family of race-proven lubricants formulated to provide high load carrying characteristics, minimum foaming and maximum resistance to thermal degradation. Exclusive chemistry reduces internal friction and enhances power output under extreme service conditions. Valvoline VR-1 Synthetic Racing Motor Oil is recommended for engines burning gasoline and full or partial alcohol fuels in track and street service. Valvoline VR-1 Synthetic Racing Motor Oil is for use in any car, light truck, van, or SUV (see proper viscosity grade below). Not recommended for extended use in vehicles with catalytic converters or in wet clutches (use Valvoline 4-Stroke Motorcycle Oil)

### The Valvoline VR-1 Synthetic Racing Motor Oil Advantages

- **Race Track Proven:** The #1 selling racing oil of all time and race track proven
- **Deposit Control:** Protects against high-temperature deposits for a cleaner engine
- **Wear Protection:** ZDDP additive provides tough anti-wear protection
- **Friction Control:** Enhanced with friction modifiers to improve horsepower
- **Foam Control:** Formulated with enhanced anti-foam system
- **Cold Start Properties:** Flows easily at low temperatures

### Approvals and Licenses:

Approvals/Performance Levels	Viscosity Grade	
API SL	10W-30	20W-50
API SN/SM	---	20W-50

### Typical Properties:

Test	10W-30	20W-50
Vis @ 100°C (cSt)	11.5	20.0
Vis @ 40°C (cSt)	64.0	147.0
Viscosity Index	153	154
Spec Gravity @ 60°F	0.857	0.856
Density (lbs/gal)	7.15	7.14
Total Base No.	8.5	8.5
Flash COC (°C)	223	230
Pour Point (°C)	-33	-24
CCS cP (°C)	5000 (-25°C)	5000 (-15°C)
MRV TP-1 cP (°C)	15,000 (-30°C)	11,000 (-20°C)
NOACK % off @ 250°C	<15	<15
Sulfated Ash	1	1
Zinc/Phosphorus	0.11/0.10	0.14/0.13