

# Product Information



A PRODUCT OF VALVOLINE, A DIVISION OF ASHLAND INC.

## VALVOLINE VR-1 RACING MOTOR OIL

**Valvoline VR-1 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 Racing Motor Oil** is recommended for engines burning gasoline and full or partial alcohol fuels in track and street service. **Valvoline VR-1 Racing Motor Oil** is for use in any car, light truck, van, or SUV where API "SM" is recommended (see proper viscosity grade below).

**Valvoline VR-1 Racing Motor Oil** is not recommended for use in wet clutches (use Valvoline 4-Stroke Motorcycle Oil).

### The Valvoline VR-1 Racing Motor Oil

- The #1 selling Racing Oil of all time and race track proven.
- Protects against high-temperature deposits for a cleaner engine.
- ZDDP additive provides tough anti-wear protection.
- Enhanced with friction modifier to improve horsepower.
- Formulated with enhanced anti-foam system.

Approvals/Performance Levels	Viscosity Grade/Other	
API SM/SL/SJ	-----	20W-50
API SH	10W-30	20W-50
API CD	10W-30	20W-50
Test	10W-30	20W-50
Vis @ 100°C (cSt)	11.5	20.5
Vis @ 40°C (cSt)	77.0	181.8
Viscosity Index	143	132
Spec Gravity @ 60°F	0.8722	0.888
Density (lbs/gal)	7.27	7.39
Total Base No.	8	8
Flash COC (°C)	212	248
Pour Point (°C)	-33	-24
CCS cP (°C)	6200(-25C)	8000(-15C)
MRV TP-1 cP (°C)	20,000(-30C)	27,000(-20C)
Noack % off @ 250C	<15	<15
Sulfated Ash	1	1
Zinc/Phosphorus	0.14/0.13	0.14/0.13
Calcium	0.191	0.191
Sodium	0.049	0.049

This information only applies to products manufactured in the following location(s): USA, Canada

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Approvals/Performance Levels	Viscosity Grade/Other		
API SM	SAE 30	SAE 40	SAE 50
API SL/SJ/SH	SAE 30	SAE 40	SAE 50
API CD	SAE 30	SAE 40	SAE 50

Test	SAE 30	SAE 40	SAE 50	SAE 60
Vis @ 100°C (cSt)	11.0	14.5	20.0	24.0
Vis @ 40°C (cSt)	87.9	136.8	219.3	293.4
Viscosity Index	111	105	105	104
Spec Gravity @ 60°F	0.8816	0.8851	0.8901	0.8931
Density (lbs/gal)	7.35	7.38	7.42	7.45
Total Base No.	8.0	8.0	8.0	8.0
Flash COC (°C)	212	248	254	254
Pour Point (°C)	-30	-27	-18	-18
Noack % off @ 250C	<15	<15	<15	<15
Sulfated Ash	1	1	1	1
Zinc/Phosphorus	0.14/0.13	0.14/0.13	0.14/0.13	0.14/0.13
Calcium	0.191	0.191	0.191	0.191
Sodium	0.049	0.049	0.049	0.049

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