

Product Information

A PRODUCT OF VALVOLINE™ INC.



VALVOLINE™ FULL SYNTHETIC MOTOR OIL

VALVOLINE™ FULL SYNTHETIC motor oils are formulated with high-tech premium quality synthetic basestocks combined with Valvoline's advanced additive technology. VALVOLINE FULL SYNTHETIC motor oils are designed for increased thermal and oxidative stability, help reduce formation of sludge and varnish deposits, provide resistance to chemical and physical breakdown, and provide lower oil vaporization and consumption at extreme temperatures when compared to conventional mineral oil products.

The Valvoline Full Synthetic Motor Oil Advantage

- **Breakdown Resistance:** Increases thermal and oxidative stability
- **Deposit Control:** Reduces formation of sludge and varnish deposits
- **Wear Protection:** Improved resistance to viscosity breakdown
- **Cold Start Properties:** Flows easily at low temperatures
- **Volatility:** Lowers oil vaporization and consumption at extreme temperatures
- **Fuel Economy:** Provide fuel economy benefits

Approvals/Performance Level

API SN/SM	0W-20	5W-20	5W-30
	0W-20	5W-20	5W-30
GM dexos1	(dexos1 license # GB1L1221103)	(dexos1 license # GB1L1220103)	(dexos1 license # GB1L1219103)
ILSAC GF-5	0W-20	5W-20	5W-30
API Resource Conserving	0W-20	5W-20	5W-30
FORD WSS-M2C945-A	-----	5W-20	-----
FORD WSS-M2C946-A	-----	-----	5W-30
FORD WSS-M2C914-A	-----	5W-20	-----
FORD WSS-M2C947-A	0W-20	-----	-----
FORD WSS-M2C153-H	-----	5W-20	-----
CHRYSLER MS-6395	0W-20	5W-20	5W-30
HONDA Feb. 2001 Spec.	-----	5W-20	-----
ACEA A1	0W-20	5W-20	5W-30

Test	0W-20	5W-20	5W-30
Vis @ 100°C (cSt)	8.6	8.7	10.8
Vis @ 40°C (cSt)	45	49	64
Viscosity Index	172	158	160
Spec Gravity @ 60°F	0.844	0.8549	0.8548
Density (lbs/gal)	7.06	7.13	7.13
Total Base No.	8.7	8.7	8.7
Flash COC (°C)	220	220	221
Pour Point (°C), max	<-39	-36	-36
CCS cP (°C)	<5800(-35C)	5500(-30C)	5800(-30C)
MRV TP-1 cP (°C)	30,000(-40C)	18,000(-35C)	22,000(-35C)
Noack % off @ 250°C	<13	<13	<13
Sulfated Ash	0.99	0.99	0.99
Zinc/Phosphorus	0.083/0.077	0.083/0.077	0.083/0.077
Calcium/Sodium	0.210/0.048	0.210/0.048	0.210/0.048

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

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