

# Product Information



A PRODUCT OF THE VALVOLINE COMPANY A DIVISION OF ASHLAND INC.

## Valvoline SynPower™ Motor Oils: ILSAC Grades

Valvoline SynPower™ ILSAC Grades are premium fully synthetic motor oils that are formulated with the highest quality synthetic base oils and enhanced with the most advanced additive technology for ultimate performance in meeting the latest requirements for modern engines in North America. The ILSAC Grade SynPower™ Motor Oils are specially designed to provide high levels of fuel efficiency and deposit protection under severe service conditions and meet the performance requirements of virtually all naturally aspirated, turbocharged and supercharged passenger cars operating in North America.

### Advantages

- **Breakdown Resistance:** Increased thermal and oxidation stability
- **Deposit Control:** Reduces formation of sludge and varnish deposits
- **Wear Protection:** Improves oil film strength and breakdown resistance
- **Volatility:** Lower oil vaporization and consumption at extreme conditions
- **Cold Start Properties:** Flows easily at low temperature

### Approvals/Performance Level

API SN Resource Conserving	0W-20	5W-20	5W-30	10W-30
API CF**	0W-20	5W-20	5W-30	10W-30
ILSAC GF-5	0W-20	5W-20	5W-30	10W-30
GM dexos1™	0W-20	5W-20	5W-30	-
License number	GB1E0513103	GB1D1209103	GB1D1213103	-
Ford WSS-M2C945-A	-	5W-20	-	-
Ford WSS-M2C946-A	-	-	5W-30	-
Ford WSS-M2C947-A	0W-20	-	-	-
Fiat Chrysler MS-6395	0W-20	5W-20	5W-30	10W-30
GM 4718M**	-	-	5W-30	10W-30
GM 6094M**	-	5W-20	5W-30	10W-30

\*\*Obsolete

	0W-20	5W-20	5W-30	10W-30
Vis @ 100°C (cSt)	8.8	8.7	10.7	10.5
Vis @ 40°C (cSt)	47.0	48.1	59.5	64.0
Specific Gravity @ 15.6°C	0.844	0.847	0.847	0.856
Total Base No.	8.7	8.7	8.7	8.7
Flash COC (°C)	220	221	223	223
Pour Point (°C)	-45	-42	-42	-39
CCS cP	4600	5000	4300	4200
(@°C)	@-35°C	@-30°C	@-30°C	@-25°C
MRV TP-1 cP	30,000	13,500	18,000	13,000
(@°C)	@-40°C	@-35°C	@-35°C	@-30°C
NOACK	12 wt%	10 wt%	10 wt%	10 wt%
Sulfated Ash	0.93	0.93	0.93	0.93
Zinc wt%	0.083	0.083	0.083	0.083
Phosphorous wt%	0.076	0.076	0.076	0.076
Sodium wt%	0.049	0.049	0.049	0.049
Calcium wt%	0.211	0.211	0.211	0.211

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## Valvoline SynPower™ Motor Oils: non-ILSAC Grades

Valvoline SynPower™ non-ILSAC Grades are premium, fully synthetic motor oils that are formulated specially with the highest quality synthetic base oils and enhanced with the most advanced additive technology for ultimate performance in meeting the latest requirements for European applications including Mercedes Benz, BMW and VW diesel and gasoline engines and meet the performance requirements of virtually all naturally aspirated, turbocharged and supercharged passenger cars operating in North America.

### Advantages

- **Breakdown Resistance:** Increased thermal and oxidation stability
- **Deposit Control:** Reduces formation of sludge and varnish deposits
- **Wear Protection:** Improves oil film strength and breakdown resistance
- **Volatility:** Lower oil vaporization and consumption at extreme conditions
- **Cold Start Properties:** Flows easily at low temperature
- **Emission System Protection:** SynPower MST and XL-III are designed for diesel passenger cars with particulate filters

Approvals/Performance Level	SynPower MST		SynPower HST	SynPower XL-III	SynPower	
API SN & API SM	MST 5W-30	MST 5W-40	HST 5W-40	-	0W-40	20W-50
API CF**	MST 5W-30	MST 5W-40	HST 5W-40	-	0W-40	20W-50
ACEA C3	MST 5W-30	MST 5W-40	-	XL-III 5W-30	-	-
ACEA A3/B4 & ACEA A3/B3	-	-	HST 5W-40	-	0W-40	20W-50
MB 229.51 & MB 229.31	MST 5W-30*	MST 5W-40*	-	-	-	-
MB 229.5 & MB 229.3	MST 5W-30	MST 5W-40	HST 5W-40*	-	0W-40*	20W-50
MB 229.52	MST 5W-30	-	-	-	-	-
VW 505 01	MST 5W-30*	MST 5W-40*	-	XL-III 5W-30	-	-
VW 502 00 & VW 505 00	MST 5W-30*	MST 5W-40*	HST 5W-40*	XL-III 5W-30	0W-40*	20W-50
VW 504 00 & VW 507 00	-	-	-	XL-III 5W-30*	-	-
BMW Longlife-01	-	-	HST 5W-40*	-	0W-40*	-
BMW Longlife-04	MST 5W-30*	MST 5W-40*	-	-	-	20W-50
Porsche A40	-	MST 5W-40*	HST 5W-40*	-	0W-40*	-
Porsche C30	-	-	-	XL-III 5W-30*	-	-
GM dexos2™	MST 5W-30*	MST 5W-40*	-	-	-	-
License	GB2E0227103	GB2E0511103	-	-	-	-
Fiat Chrysler MS-11106	MST 5W-30*	-	-	-	-	-
Fiat Chrysler MS-12991	-	MST 5W-40	-	-	-	-
Renault RN700 & RN710	-	-	-	-	0W-40*	-

\*OEM Approval, \*\*Obsolete

	MST 5W-30	MST 5W-40	HST 5W-40	XL-III 5W-30	0W-40	20W-50
Vis @ 100°C (cSt)	12.2	13.1	13.5	11.7	13.5	19.0
Vis @ 40°C (cSt)	70.6	79.0	82.0	68.1	77.0	139.0
Specific Gravity @ 15.6°C	0.853	0.852	0.854	0.853	0.843	0.862
Total Base No.	7	7	10	7	11	7
Flash COC (°C)	227	230	230	230	220	230
Pour Point (°C)	-39	-42	-42	-42	-45	-33
HTHS @150°C (cP)	3.5	3.7	3.7	3.5	3.7	5.2
CCS cP	6100	5900	5900	5800	5800	4700
(@°C)	@-30°C	@-30°C	@-30°C	@-30°C	@-35°C	@-15°C
MRV TP-1 cP	18,700	20,000	20,000	18,000	24,600	10,100
(@°C)	@-35°C	@-35°C	@-35°C	@-35°C	@-40°C	@-20°C
NOACK	9 wt%	10 wt%	10 wt%	10 wt%	9 wt%	8 wt%
Sulfated Ash	0.78	0.78	1.26	0.68	1.17	0.78
Zinc wt%	0.084	0.084	0.099	0.082	0.105	0.084
Phosphorous wt%	0.077	0.077	0.090	0.076	0.096	0.077
Calcium wt%	0.193	0.193	0.326	0.160	0.269	0.193