

# PRODUCT INFORMATION



## VALVOLINE™ ADVANCED FULL SYNTHETIC MOTOR OIL ILSAC GRADES (Formerly marketed in North America as Synpower™)

Valvoline Advanced Full Synthetic ILSAC Grade is a premium full synthetic motor oil that is formulated with the highest quality synthetic base oils, and with premium additive chemistry, to meet the demanding requirements of turbo-charged and gasoline direct-injected engines. These oils are specifically formulated to provide high levels of fuel efficiency and deposit protection under severe service conditions.

Valvoline Advanced Full Synthetic ILSAC Grades are approved and licensed for the newly adopted API SP classification, protecting GDI (Gasoline Direct Injection) engines from low-speed pre-ignition (LSPI).

### Valvoline Advanced Full Synthetic Motor Oil Advantages:

- Innovative anti-wear additives to help reduce wear
- Extra detergent and dispersant to help reduce deposits, sludge, and varnish formation
- Enhanced thermal and oxidative stability
- Flows easily at low temperature for enhanced cold start protection

Approvals and Licenses:	SAE 0W-16	SAE 0W-20	SAE 5W-20	SAE 5W-30	SAE 10W-30
API SP	X	X	X	X	X
ILSAC GF-6A	-----	X	X	X	X
ILSAC GF-6B	X	-----	-----	-----	-----
API SN with SN Plus	X	X	X	X	X
API Resource Conserving	X	X	X	X	X
ILSAC GF-5	-----	X	X	X	X
GM dexos1™ Gen2 (License #)	-----	X D10193GL103	X D10194GL103	X D10195GL103	-----

### Meet and Recommended Applications:

	SAE 0W-16	SAE 0W-20	SAE 5W-20	SAE 5W-30	SAE 10W-30
Ford WSS-M2C960-A1	-----	-----	X	-----	-----
Ford WSS-M2C961-A1	-----	-----	-----	X	-----
Ford WSS-M2C962-A1	-----	X	-----	-----	-----
Chrysler MS-6395	-----	X	X	X	X

Typical Properties:	SAE 0W-16	SAE 0W-20	SAE 5W-20	SAE 5W-30	SAE 10W-30
KV100 (cSt)	6.8	8.4	8.3	10.5	10.8
KV40 (cSt)	34	44	45	61	67
Viscosity Index	163	171	162	162	152
Density (kg/m <sup>3</sup> )	0.844	0.844	0.849	0.847	0.853
CCS (cP @ °C)	<6000@ -35	<6000@ -35	<6200@ -30	<6200@ -30	<6200 @ -25
Pour Point (°C)	</= -39	</= -39	</= -36	</= -36	</= -33
HTHS (cP)	2.4	2.7	2.7	3.1	3.3
Zinc (ppm)	830	940	940	940	940
Phosphorous (ppm)	760	800	800	800	800
Noack (% loss)	11.4	<15.0	<15.0	<15.0	<15.0

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

# VALVOLINE™ ADVANCED FULL SYNTHETIC MOTOR OIL

## NON-ILSAC GRADES (Formerly marketed in North America as Synpower™)

Valvoline Advanced Full Synthetic non-ILSAC Grade is a premium full synthetic motor oil that is formulated with the highest quality synthetic base oils, and with premium additive chemistry, to meet the demanding requirements of European OEM's including Mercedes Benz, BMW, Volkswagen, and Porsche. Additionally, Advanced XL-III is formulated for use in diesel passenger cars with particulate filters.

Approvals and Licenses:	XL-III SAE 5W-30	0W-40	20W-50
API SN	X	X	X
MB-Approval 229.5 <sup>(a)</sup>	-----	X	-----
MB-Approval 229.51 <sup>(b),(d)</sup>	X	---	-----
MB-Approval 229.52	-----	---	-----
VW 505 01	-----	---	-----
VW 502 00 & 505 00	-----	X	-----
VW 504 00 & 507 00 <sup>(c)</sup>	X	---	-----
BMW LL-01	-----	X	-----
BMW LL-04 <sup>(d)</sup>	X	---	-----
Porsche A40	-----	X	-----
Porsche C30	X	---	-----
Renault RN700 & RN710	-----	X	-----
Chrysler MS 12633	-----	X	-----

### Meet and Recommended Applications:

	XL-III SAE 5W-30	0W-40	20W-50
ACEA C3	X	-----	-----
ACEA A3/B3 & A3/B4	-----	X	X
PSA B71 2296	-----	-----	-----

Typical Properties:	XL-III SAE 5W-30	0W-40	20W-50 <sup>(e),(f)</sup>
KV100 (cSt)	11.7	13.5	19.0
KV40 (cSt)	68.1	77.0	139.0
Viscosity Index	168	180	155
Density (lbs/gal)	7.1	7.0	7.2
CCS (cP @ °C)	<6200@-30°C	<6200@-35°C	<8500@-15°C
Pour Point (°C)	≤ -39 °C	≤ -42 °C	≤ -30 °C
HTHS (cP)	3.5	3.7	4.8

<sup>(a)</sup> Valvoline products with MB-Approval 229.5 are also suitable for use in MB229.3 applications.

<sup>(b)</sup> Valvoline products with MB-Approval 229.51 are also suitable for use in MB 229.31 applications

<sup>(c)</sup> Valvoline products approved under VW Standard 504 00 / 507 00 can be used in VW 505 01 / 502 00 / 505 00 applications

<sup>(d)</sup> In the United States

>Valvoline products with MB-Approval 229.51 can also be used in MB 229.5 and 229.3 applications

>Valvoline products with BMW LL-04 approval can also be used in BMW LL-01 applications

These recommendations are not valid in region(s) with lesser fuel quality

<sup>(e)</sup> Advanced 20W-50 is also suitable for use in applications calling for the performance levels of MB 229.51 & 229.31, VW 502 00 & 505 00, or BMW LL-04

<sup>(f)</sup> When in doubt, always defer to vehicle owner's manual for recommended viscosity grade and performance specification

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

Effective Date:  
6/17/20

Author's Initials:  
LK