



## Product Description

**PennGrade Synthetic Blend Motor Oils** are formulated with premium base oils and the latest high performance additive technology for gasoline engines. **PennGrade Synthetic Blend Motor Oil** delivers a powerful combination of world class durability and industry leading fuel economy to maintain peak performance of your engine. It is designed to meet or exceed the toughest demands of new and later model gasoline engines.

**PennGrade Synthetic Blend Motor Oils** prevent lubricant starvation during cold temperature start-ups by providing improved compatibility with ethanol containing fuels. The high-tech anti-wear technology offers incredible valve train wear protection and it helps lengthen the life of catalytic emission systems. **PennGrade Synthetic Blend Motor Oil** offers outstanding protection against harmful engine deposits and high temperature thermal breakdown.

## Features and Benefits

- API licensed for service category SN/ILSAC GF-5 (SAE 5W-20, 5W-30 and 10W-30)
- Provides protection for turbocharged and gasoline direct injection engines
- Improves fuel efficiency in new and late model gasoline engines
- Balanced detergent and dispersant system minimizes deposits and sludge
- Synthetic base oils help protect against harmful effects of cold temperature start-ups

## Typical Applications

PennGrade Synthetic Blend Motor Oil Typical Applications						
Specifications:	0W-20	5W-20	5W-30	10W-30	10W-40	20W-50
API SN (API Licensed)		X	X	X		
API SN	X	X	X	X	X	X
ILSAC GF-5	X	X	X	X		
Chrysler MS-6395		X	X	X		
Ford WSS-M2C945-A		X				
Ford WSS-M2C947-A	X					

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 1-800-OIL-LUBE (1-800-645-5823)





## Typical Properties

PennGrade Synthetic Blend Motor Oil Typical Properties							
Test	Method	0W-20	5W-20	5W-30	10W-30	10W-40	20W-50
SAE Grade	J-300	<b>0W-20</b>	<b>5W-20</b>	<b>5W-30</b>	<b>10W-30</b>	<b>10W-40</b>	<b>20W-50</b>
Viscosity @ 100°C, cSt	ASTM D445	7.3	8.2	10.4	11.1	13.7	19.1
Viscosity @ 40°C, cSt	ASTM D445	41.5	48.4	63	68.6	90.6	158.5
Viscosity Index	ASTM D2270	150	150	155	155	150	140
Cold Cranking Viscosity, cP	ASTM D5293	5800 @ -35°C	6100 @ -30°C	6100 @ -30°C	5500 @ -25°C	6100 @ -25°C	5000 @ -15°C
MRV Viscosity, cP	ASTM D4684	40000 @ -40°C	21000 @ -35°C	26500 @ -35°C	14500 @ -30°C	20000 @ -30°C	15000 @ -20°C
Flash Point, °C	ASTM D92	215	215	223	226	228	232
Flash Point, °F	ASTM D92	419	419	433	439	442	450
Specific Gravity @ 60°F	ASTM D1298	0.865	0.866	0.8703	0.877	0.8823	0.883
Density, lbs/gal	ASTM D1298	7.2	7.23	7.25	7.3	7.35	7.4
Sulfated Ash, Wt%	ASTM D874	0.84	0.84	0.84	0.84	0.84	0.84

D-A Part Number:	Bulk	62021	61951	61961	61971	61981	*
	Drum - 55 Gal	62022	61952	61962	61972	61982	*
	4-1 Gal Case, net 4 Gal	n/a	61954	61964	61974	61984	n/a
	12-1 Qt Case, net 3 Gal	n/a	61956	61966	61976	61986	n/a

\*Special Order only. Minimum shipping quantities and longer delivery time applies.

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