



Product Description

PennGrade Full Synthetic Motor Oil has been formulated with the latest high-tech additive technology and premium quality synthetic base oils. It is designed to meet the toughest demands of today's automotive engine technology.

PennGrade Full Synthetic Motor Oil has been designed to offer the highest levels of performance, engine cleanliness and protection while supporting the performance requirements of ILSAC GF-5. The product has been designed to insure quick cold weather engine start up while protecting vital engine parts, and to provide exceptional protection against wear in high temperature/high stress applications. **PennGrade Full Synthetic Motor Oil** provides excellent resistance to viscosity breakdown and foaming in modern engines.

Features and Benefits

- Full synthetic formulation helps increase engine life by maintaining oil flow at both high and low temperatures.
- Formulated with exclusive additive chemistry which provides outstanding viscosity stability, superior engine cleaning power, deposit control, and wear protection.
- Combination of synthetic base stocks and unique additives ensures excellent thermal and oxidation stability and outstanding performance during maximum recommended oil drain intervals.
- Excellent low temperature characteristics permit quick engine starting in cold weather and promptly deliver oil to vital metal parts maximizing engine life.
- Anti-foam agents permit higher oil pressure for greater protection.

Typical Applications

PennGrade Full Synthetic Motor Oil Typical Applications	
Specifications: (supports the performance requirements of)	10W-30
API Service Categories: SN, SM, SL, SJ	X
Chrysler MS 6395	X
GM 6094M	X
ILSAC GF-5	X
Gasoline engines.	X
Some small diesel engines in automobiles and pick-up trucks.	X

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Typical Properties

PennGrade Full Synthetic Motor Oil Typical Properties		
SAE Viscosity Grade	J-300	10W-30
Viscosity		
@ 100 °C, cSt	ASTM D445	11.1
@ 40°C, cSt	ASTM D445	69.3
Viscosity Index	ASTM D2270	152
Cold Cranking Viscosity — (SAE Grade Maximum: 10W- = 7,000 cP)		
@ -25°C, cP	ASTM D5293	5,500
@ -30°C, cP	ASTM D5293	n/a
@ -35°C, cP		n/a
Cold Pumping Viscosity — (SAE Grade Maximum: All Grades = 60,000 cP)		
@ -30°C, cP	ASTM D4684	<30,000
Flash Point, COC, °F	ASTM D92	465
Flash Point, COC, °C	ASTM D92	240
Gravity, API	ASTM D287	33.2
TBN	ASTM D2896	8.7
Sulfated Ash, Wt%	ASTM D877	0.96
D-A Part Number:		
	Bulk	61621
	Tote - 330 Gal	61623
	Drum - 55 Gal	61622
	Pail - 5 Gal*	61628
	4-1 Gal Case, net 4 Gal	61624
	12-1 Qt Case, net 3 Gal	61626

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