



Allied Super Extra Duty PC Motor Oil

Specially formulated to exceed the toughest U.S. standards for outstanding protection and performance in today's harder working, hotter running gasoline engines.

Allied Super Extra Duty PC Motor Oils utilize high viscosity index 100% virgin North American base stocks with superior thermal and oxidative stability and excellent high and low temperature properties. Volatility and low temperature viscosity performance are further enhanced through the use of application specific group 2 hydrocracked base oils.

They also contain the most technologically advanced, rigorously tested and field proven additive system. They provide superior wear protection, excellent deposit control, reduced starting friction, outstanding protection against viscosity and thermal breakdown, and improved fuel economy.

All Allied products are formulated to meet, or exceed, all relevant industry standards. The chart below highlights the key protection and performance features and benefits provided by our **Allied Extra Duty PC Motor Oil**.

FEATURES

Exclusively utilizes 100% virgin application specific base oils including group 2 hydrocracked base stocks

Utilizes newest, most advanced, SL GF-4 passenger car detergent inhibitor additive system

BENEFITS

- Superior thermal and oxidative stability prevents deposit formation and fluid thickening
- High and low temperature properties maintains proper oil flow and viscosity for outstanding wear protection under all operating conditions
- Lower volatility reduces oil consumption
- Excellent viscosity retention
- High detergency and superior dispersancy keeps engine clean
- Exceptional anti-wear properties ensure long engine life
- Outstanding protection against rust and corrosion



To find out more about our products and services, contact us at: (402) 344-4343 or visit www.alliedoil.com



Allied Super Extra Duty PC Motor Oil

Allied Super Extra Duty PC Motor Oils are recommended for all gasoline engines in cars and light trucks. They exceed warranty requirements for all manufacturers where a specific viscosity grade meeting the following specifications is required:

- API SM, SL, SJ, SH, Energy Conserving (EC on SAE 5W-20, 5W-30 and SAE 10W-30 only)
- ILSAC GF-4 (SAE 5W-20, 5W-30 and SAE 10W-30 only)
- GM 6094M
- Chrysler MS-6395H
- MIL-A-A-52306 CID

Typical Properties:

PROPERTY	METHOD	SAE 10W-30	SAE 10W-40	SAE 20W-50	SAE 30W	SAE 5W-20
Gravity, °API	ASTM D287	31.56	30.96	28.95	28.95	32.67
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8678	0.871	0.8819	0.8819	0.8619
Viscosity @ 40°C cSt	ASTM D445	64.52	106.5	164.7	95.81	46.66
Viscosity @ 100°C cSt	ASTM D445	10.2	15.33	17.87	11.35	8.17
Viscosity Index	ASTM D2270	145	152	120	105	150
Pour Point °C (°F)	ASTM D5950	-55°C (-67°F)	-39°C (-38°F)	-33°C (-28°F)	-33°C (-28°F)	-45°C (-49°F)
Cold Cranking Simulator at (°C), cP	ASTM D5293	4716 (-25)	6771 (-25)	8352 (-15)	3.4	6306 (-30)
High Temp / High Shear Vis at 100°C, cP	ASTM D 6616	7.31	4.1	4.68	6.1	6.07
High Temp / High Shear Vis at 150°C, cP	ASTM D4683	3.13	13.5	5.1	2.5	2.57
Noack Volatility, % loss	ASTM D 5800	13.3	2.5	2.5	0.091	14.9
Color	ASTM D 1500	2.5	0.091	0.091	0.079	2.5
Zinc, wt. %	ASTM D 5185	0.085	0.079	0.079	0.169	0.091
Phosphorus, wt. %	ASTM D 5185	0.077	0.169	0.169	0.32	0.079
Calcium, wt. %	ASTM D 5185	0.214	0.315	0.32	0.023	0.169
Sulfur, wt. %	ASTM D 4951	0.289	0.023	0.023	0.0079	0.283
Boron, wt. %	ASTM D 5185	0.023	0.0079	0.0079	0.92	0.023
Molybdenum, wt. %	ASTM D 5185	0.0079	0.92	0.92	0.102	0.0079
Sulfated Ash, wt. %	ASTM D 874	0.92	0.102	0.102	0/0	0.92
Nitrogen, wt. %	ASTM D 4629	0.102	42,920 (-30)	22,387 (-15)	0/0	0.102
Pumping Viscosity at (°C), cP	ASTM D4684	19,949 (-30)	12.6	15.18	0/0	22,301 (-35)

CLAIMS INFORMATION	SAE 10W-30	SAE 10W-40	SAE 20W-50	SAE 30W	SAE 5W-20
	API SN	API SN	API SN	API SN	API SN
	API SM	API SM	API SM	API SM	API SM
	API SL	API SL	API SL	API SL	API SL
	ILSAC GF-5				ILSAC GF-5
	ILSAC GF-4				ILSAC GF-4
	GM 6094M				M2C946-A GM 6094M

**ALWAYS CONSULT OWNERS MANUAL
FOR CORRECT VISCOSITY GRADE**

Due to our goal of continuous improvement and commitment to keep pace with changing requirements, the information contained in this product sheet is subject to formulation changes without notification. Check with your Allied sales representative to make sure you have the most up-to-date product sheet. The version to reference is located in the right hand corner of this product sheet.

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