



GT-1® High Performance Motor Oil with Liquid Titanium®

Kendall® GT-1 High Performance Motor Oil with Liquid Titanium protection additive is a high-quality, conventional automotive engine oil designed for use in gasoline-fueled passenger cars and light trucks that do not require an ILSAC GF-5 oil for warranty coverage. The SAE 20W-50 and SAE 50 viscosity grades are especially recommended for use in high-performance street engines and competition engines, including both gasoline- and alcohol-fueled racing vehicles.

GT-1 High Performance with Liquid Titanium is formulated to provide excellent wear protection, to minimize sludge and varnish formation, and to resist viscosity and thermal breakdown, even in severe service. It also protects against rust and bearing corrosion, and is highly resistant to foaming. All viscosity grades are fortified with our exclusive Liquid Titanium protection additive for extra protection against engine wear. This additive enhancement provides increased engine protection by forming a strongly bonded titanium shield on the surface of critical engine parts, which reduces friction and wear and can help extend engine life.

GT-1 High Performance with Liquid Titanium, SAE 20W-50, also contains a boosted level of zinc dialkyldithiophosphate (ZDDP) additive to provide additional wear protection and enhanced oxidation resistance in the most demanding applications. It is particularly recommended for use in turbocharged engines and in high-performance engines with flat-tappet camshafts, especially during the critical break-in period.

Applications

- Gasoline-fueled passenger cars, light trucks and sport utility vehicles that do not require an ILSAC GF-5 oil for warranty coverage
- Older vehicles and small four-stroke cycle gasoline engines found in lawn mowers and garden tractors, where the engine manufacturer specifies monograde engine oil (SAE 30, 40)
- Competition engines and high-performance street engines (SAE 20W-50, 50)

GT-1 High Performance with Liquid Titanium is licensed for:

- API Service SN⁽¹⁾

⁽¹⁾ **Note:** The SAE 50 viscosity grade meets engine protection requirements of API SN, but is not licensed.

**Conventional
Passenger Car
Engine Oil For
High-
Performance &
Competition
Engines;
Fortified With
Liquid Titanium®
Protection
Additive**



CONTACT INFORMATION

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Features/Benefits

- Exclusive Liquid Titanium® protection additive provides extra protection against engine wear
- Formulated for engines equipped with turbochargers or superchargers
- Excellent resistance to viscosity and thermal breakdown at high temperatures
- Protects against sludge and varnish formation
- Protects against rust and bearing corrosion
- Highly resistant to foaming
- High ZDDP content for additional wear protection for engines with flat-tappet camshafts (SAE 20W-50)
- Racetrack-proven performance

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Typical Properties

SAE Grade	10W-40	20W-50	30	40	50
Specific Gravity @ 60°F	0.872	0.883	0.882	0.884	0.889
Density, lbs/gal @ 60°F	7.26	7.35	7.35	7.36	7.40
Color, ASTM D1500	3.0	3.5	3.5	3.5	4.0
Flash Point (COC), °C (°F)	227 (441)	230 (446)	250 (482)	254 (489)	260 (500)
Pour Point, °C (°F)	-36 (-33)	-30 (-22)	-33 (-27)	-28 (-18)	-28 (-18)
Viscosity, Kinematic					
cSt @ 40°C	110	160	95.0	128	202
cSt @ 100°C	15.6	19.4	11.5	13.6	18.6
Viscosity Index	150	139	109	102	102
Cold Cranking Viscosity, cP					
@ (°C)	6,700	6,300	—	—	—
@ (°C)	(-25)	(-15)	—	—	—
High-Temp/High-Shear Viscosity, cP @ 150°C	3.9	4.9	3.4	3.9	5.1
Sulfated Ash, ASTM D874, wt %	0.96	0.99	1.1	1.1	1.1
Total Base Number (TBN), ASTM D2896	8.0	8.0	9.3	9.3	9.3
Phosphorus, wt %	0.077	0.109	0.089	0.089	0.089
Titanium, wt %	0.010	0.010	0.010	0.010	0.010
Zinc, wt %	0.085	0.120	0.098	0.098	0.098

Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3apps.phillips66.com/NetMSDS>.

Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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