



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

Kendall® GT-1 High Performance Motor Oil with Liquid Titanium is a high-quality, conventional engine oil designed for use in gasoline-fueled passenger cars and light trucks that do not require an ILSAC GF-4 oil for warranty coverage. Select viscosity grades are particularly 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 the formation of sludge and varnish, 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 additive technology for extra protection against engine wear. The Liquid Titanium 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 helps 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 for use 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-4 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 meets or exceeds the requirements of:

- API Service SM, SL (all grades except SAE 50)

**Conventional
Engine Oil For
Passenger Cars,
High-Performance
Vehicles &
Competition
Engines; Fortified
with Liquid
Titanium®**

Customer Service
Number:
1-714-556-0808

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Features/Benefits

- Exclusive Liquid Titanium® additive technology for 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	0.870	0.883	0.879	0.881	0.886
Density, lbs/gal @ 60°F	7.25	7.35	7.32	7.34	7.38
Color, ASTM D1500	3.0	3.5	3.5	3.5	4.0
Flash Point (COC), °C (°F)	227 (441)	227 (441)	250 (482)	254 (489)	260 (500)
Pour Point, °C (°F)	<-39 (<-38)	<-33 (<-27)	-33 (-27)	-33 (-27)	-30 (-22)
Viscosity, Kinematic					
cSt @ 40°C	108	175	95.0	131	204
cSt @ 100°C	15.3	18.6	11.2	13.8	18.5
Viscosity Index	150	120	102	101	100
Cold Cranking Viscosity, cP	6,300	6,500	—	—	—
@ (C)	(-25)	(-15)	—	—	—
High-Temp/High-Shear Viscosity, cP @ 150°C	3.8	4.8	3.4	4.1	5.1
Sulfated Ash, ASTM D874, wt %	0.94	0.98	1.03	1.03	1.03
Total Base Number (TBN), ASTM D2896	7.8	7.8	8.6	8.6	8.6
Phosphorus, wt %	0.077	0.108	0.085	0.085	0.085
Titanium, wt %	0.010	0.010	0.010	0.010	0.010
Zinc, wt %	0.085	0.119	0.094	0.094	0.094

Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3.conocophillips.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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