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Kendall

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

Kendall® GT-1 High Performance Synthetic Blend Motor Oil with Liquid Titanium protection additive is a premium quality, part-synthetic automotive engine oil designed to provide excellent engine protection for gasoline-fueled and flex-fuel passenger cars and light trucks under all operating conditions.

GT-1 High Performance Synthetic Blend with Liquid Titanium is formulated with a blend of synthetic and conventional base stocks and a performance additive package fortified with our exclusive Liquid Titanium protection additive for extra wear protection and improved fuel savings. The part-synthetic formulation provides enhanced oxidation resistance and thermal stability at high temperatures and better pumpability at low temperatures compared with conventional engine oils, for extra protection under all driving conditions. The Liquid Titanium protection additive 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. Reduced friction also helps improve fuel economy performance beyond ILSAC GF-5 requirements.

GT-1 High Performance Synthetic Blend with Liquid Titanium (except SAE 10W-40) exceeds new car warranty requirements as defined by ILSAC GF-5. It meets or exceeds "Resource Conserving" requirements for fuel economy improvement, emission system and turbocharger protection, and protection of engines operating on ethanol-containing fuels up to E85. It is backward serviceable for use where API SM or earlier "S" category engine oils are recommended.

Applications

- Gasoline-fueled and flex-fuel passenger cars, light trucks and sport utility vehicles
- Four-stroke cycle gasoline engines in other mobile or stationary equipment

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

- ILSAC GF-5 (except SAE 10W-40)
- API Service SN with Resource Conserving (except SAE 10W-40)
- API Service SN (SAE 10W-40)

**Premium
Synthetic Blend
Passenger Car
Engine Oil;
Fortified With
Liquid Titanium®
Protection
Additive**



Kendall
WITH LIQUID
TITANIUM
PROTECTION ADDITIVE

CONTACT INFORMATION

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Lubricants.com**

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GT-1 High Performance Synthetic Blend with Liquid Titanium meets or exceeds the requirements of:

- Chrysler MS-6395 (except SAE 10W-40)
- Ford WSS-M2C945-A (SAE 5W-20)
- Ford WSS-M2C946-A (SAE 5W-30)
- Ford WSS-M2C947-A (SAE 0W-20)
- GM6094M (except SAE 10W-40) (obsolete specification)
- Foreign automakers where the OEM specifies ILSAC GF-5 engine oil

Features/Benefits

- Exceeds ILSAC GF-5 requirements for new cars under warranty (except SAE 10W-40)
- Part-synthetic formulation provides enhanced performance benefits compared with conventional engine oils
- Exclusive Liquid Titanium® protection additive provides extra wear protection and improved fuel economy
- Excellent resistance to viscosity and thermal breakdown at high temperatures
- Protects against sludge and varnish formation
- Protects against rust and bearing corrosion
- Low volatility for reduced oil consumption
- Excellent low-temperature pumpability for protection during cold starts
- Highly resistant to foaming
- Formulated to protect turbochargers and emission control system catalysts
- Formulated for use in vehicles operating on ethanol-containing fuels up to E85

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

Typical Properties

SAE Grade	0W-20	5W-20	5W-30
Specific Gravity @ 60°F	0.849	0.862	0.861
Density, lbs/gal @ 60°F	7.07	7.18	7.17
Color, ASTM D1500	3.0	3.0	3.0
Flash Point (COC), °C (°F)	218 (424)	218 (424)	216 (421)
Pour Point, °C (°F)	-41 (-42)	-39 (-38)	-39 (-38)
Viscosity, Kinematic			
cSt @ 40°C	46.0	49.9	66.2
cSt @ 100°C	8.8	8.6	11.0
Viscosity Index	174	150	158
Cold Cranking Viscosity, cP	5,400	6,150	6,150
@ (°C)	(-35)	(-30)	(-30)
High-Temp/High-Shear Viscosity, cP @ 150°C	2.6	2.6	3.1
Sulfated Ash, ASTM D874, wt %	0.96	0.96	0.96
Total Base Number (TBN), ASTM D2896	8.0	8.0	8.0
Phosphorus, wt %	0.077	0.077	0.077
Titanium, wt %	0.010	0.010	0.010
Zinc, wt %	0.085	0.085	0.085

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

Typical Properties

SAE Grade	10W-30	10W-40
Specific Gravity @ 60°F	0.866	0.872
Density, lbs/gal @ 60°F	7.21	7.26
Color, ASTM D1500	3.0	3.0
Flash Point (COC), °C (°F)	229 (444)	227 (441)
Pour Point, °C (°F)	-39 (-38)	-36 (-33)
Viscosity, Kinematic		
cSt @ 40°C	65.7	110
cSt @ 100°C	10.5	15.6
Viscosity Index	148	150
Cold Cranking Viscosity, cP @ -30°C	4,550	6,700
@ (°C)	(-25)	(-25)
High-Temp/High-Shear Viscosity, cP @ 150°C	3.0	3.9
Sulfated Ash, ASTM D874, wt %	0.96	0.96
Total Base Number (TBN), ASTM D2896	8.0	8.0
Phosphorus, wt %	0.077	0.077
Titanium, wt %	0.010	0.010
Zinc, wt %	0.085	0.085

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>.

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