



## ATLANTIC NEOTERIC ULTRA FULLY SYNTHETIC ENGINE OIL API SP

*(Premium Fully Synthetic Passenger Car Engine Oil-with LSPI Protection)*

### DESCRIPTION

ATLANTIC NEOTERIC ULTRA FULLY SYNTHETIC ENGINE OIL API SP is a premium quality, full-synthetic automotive engine oil designed to provide maximum engine protection for both turbocharged gasoline direct injection, conventional gasoline-fueled and flex-fueled passenger cars and light trucks under all operating conditions. It is particularly recommended for vehicles operating at extreme temperatures or under severe driving conditions, such as towing heavy loads.

ATLANTIC NEOTERIC ULTRA FULLY SYNTHETIC ENGINE OIL API SP exceeds new car warranty requirements as defined by ILSAC GF-6. It is uniquely formulated to help combat low speed pre-ignition (LSPI) in turbocharged gasoline direct injection engines. 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 SN or earlier "S" category engine oils are recommended.

### PROPERTIES

ATLANTIC NEOTERIC ULTRA FULLY SYNTHETIC ENGINE OIL API SP is formulated with synthetic base stocks. The full synthetic formulation provides improved protection against viscosity breakdown and deposit formation at high temperatures; lower volatility for reduced oil consumption; and faster oil circulation at low temperatures for easier starting and better protection during cold starts when compared with conventional engine oils.

### APPLICATIONS

- Turbocharged gasoline direct injection, conventional gasoline-fueled and flex-fuel passenger cars, light trucks and sport utility vehicles, including gasoline-electric hybrids, especially when operating under severe conditions
- Four-stroke cycle gasoline engines in other mobile or stationary equipment

### PRODUCT FEATURES & BENEFITS

- Helps protect against low speed pre-ignition (LSPI) in turbocharged gasoline direct injection engines (TGDI)
- Exceeds ILSAC GF-6 requirements for new cars under warranty
- Enhanced performance benefits at extreme temperatures compared with conventional engine oils
- Outstanding 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

### RECOMMENDATIONS / SPECIFICATIONS

International Licenses;

- ILSAC GF-6A, SAE 0W-20, SAE 0W-30, SAE 5W-30, SAE 5W-40
- ILSAC GF-6B
- API Service SP, SN PLUS with Resource Conserving
- ACEA C3-16 (SAE 5W-30 & SAE 5W-40)
- ACEA C2-16 (SAE 5W-30 & SAE 0W-30)
- ACEA C5-16 (SAE 0W-20)

OEM Approval:

- MB-Approval 229.51(SAE 5W-30)

Meets or exceeds the requirements of:

- BMW Longlife-04 (SAE 5W-30 & SAE 5W-40)
- MB 229.51/229.52 (SAE 5W-30 & SAE 5W-40)
- MB 229.61 (SAE 0W-30)
- MB 229.71 (SAE 0W-20)
- Opel OV0401547 (SAE 0W-20, SAE 0W-30, SAE 5W-30 & SAE 5W-40)
- RN0700/RN0710 (SAE 5W-30 & SAE 5W-40)

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*Health and Safety: Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contact office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.*



## TYPICAL TECHNICAL PROPERTIES

Viscosity Grade, SAE J300	5W-40	5W-30	0W-20	0W-30
PRODUCT CODE	6800INF-1	6800INF-2	6800INF -3	6800INF -4
Density at 15.6 <sup>0</sup> C, g/ml, ASTM D4052	0.846	0.846	0.845	0.846
Color, ASTM 6045	3.0	3.0	3.0	3.0
Cold Cranking Viscosity (CCS), mPa s, ASTM D5293	5340 @-30 <sup>0</sup> C	5019 @-30 <sup>0</sup> C	4916 @-35 <sup>0</sup> C	5458 @-35 <sup>0</sup> C
Kinematic Viscosity at 40 <sup>0</sup> C, mm <sup>2</sup> /s, ASTM D445	79.65	70.25	41.25	53.4
Kinematic Viscosity at 100 <sup>0</sup> C, mm <sup>2</sup> /s, ASTM D445	13.0	11.8	8.1	9.7
Viscosity Index, ASTM D2270	165	165	175	170
Flash Point(COC), °C, ASTM D92	234	230	224	228
Pour Point, °C, ASTM D97	-42	-45	-42	-42
Total Base Number, mg KOH/g, ASTM D2896	9.45	9.50	9.45	9.45
Sulfated Ash, wt%, ASTM D 874	0.9	0.9	0.9	0.9
High-Temperature/High-Shear Viscosity @ 150 <sup>0</sup> C, cP, ASTM D4683	3.5	3.5	2.6	2.9
Phosphorus, wt %, ASTM D5185	0.077	0.077	0.077	0.077
Zinc, wt %, ASTM D5185	0.085	0.085	0.085	0.085

Note: These characteristics are typical of current production. While future production will conform to Atlantic's specification, variations in these characteristics may occur.

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\* supersedes all previous versions

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