

PREMIUM LUBRICANTS & AUTOMOTIVE SOLUTIONS

GC SYNTHETIC SHIELD SAE 0W-20 API SN

Synthetic Fuel Economy Gasoline Engine Oil | Optimized for Modern Japanese & Asian Vehicles

PRODUCT DESCRIPTION & APPLICATION

GC SYNTHETIC SHIELD SAE 0W-20 API SN is a synthetic low-viscosity gasoline engine oil formulated to maximize fuel economy and provide excellent engine cleanliness. Ideal for modern Asian and North American vehicles requiring a 0W-20 viscosity grade under Middle Eastern operating conditions.

PERFORMANCE & SERVICE DRAIN INTERVALS (SAUDI ARABIA SPECIFICATION)

Application Category	Recommended Service Life / Drain Interval
Modern Passenger Cars, Hybrids & Sedans	7,000 km – 10,000 km (Optimized for KSA driving conditions)
Light Fleet & Compact Utility Fleets	250 – 300 Operating Hours (Under thermal heat loading)

***Note:** Actual drain intervals may vary depending on vehicle condition, fuel sulfur levels, severe dust exposure, and OEM engine recommendations

KEY FEATURES & DESERT ADVANTAGES

- ✓ **Fuel Economy Maximization:** Meets ILSAC GF-5 standards to reduce internal engine drag and save fuel.
- ✓ **Thermal Oxidation Defense:** Resists breakdown and sludge formation under elevated crankcase temperatures.
- ✓ **Rapid Circulation:** Ultra-fast oil flow protects cam lobes and bearings immediately upon starting.
- ✓ **Low Volatility:** Controlled evaporative loss helps maintain oil level between service intervals.

TYPICAL PHYSICAL & CHEMICAL PROPERTIES

Property Parameter	Method	Unit	Typical Value
SAE Viscosity Grade	SAE J300	-	0W-20
Kinematic Viscosity @ 100°C	ASTM D445	cSt	8.40
Kinematic Viscosity @ 40°C	ASTM D445	cSt	43.80
Viscosity Index (VI)	ASTM D2270	-	172
Density @ 15°C	ASTM D4052	g/cm ³	0.848
Flash Point (COC)	ASTM D92	°C	222
Pour Point	ASTM D97	°C	-42
Total Base Number (TBN)	ASTM D2896	mg KOH/g	7.9
Apparent Viscosity (CCS) @ -35°C	ASTM D5293	mPa.s (cP)	5,400
Sulfated Ash Content	ASTM D874	% wt	0.78
Evaporation Loss (NOACK)	ASTM D5800	% wt	10.5

PERFORMANCE SPECIFICATIONS & STANDARDS

- API Service Category: SN / ILSAC GF-5
- SASO / GSO Standards Compliant (Saudi Standards, Metrology and Quality Organization)