

PREMIUM LUBRICANTS & AUTOMOTIVE SOLUTIONS

GC SYNTHETIC SHIELD SAE 10W-30 API SN

Advanced Synthetic Blend Engine Oil | Engineered for Modern Passenger Cars in Hot Climates

PRODUCT DESCRIPTION & APPLICATION

GC SYNTHETIC SHIELD SAE 10W-30 API SN is an advanced synthetic blend gasoline engine oil formulated to meet the challenging operating conditions encountered across Saudi Arabia. Blended with premium synthetic and Group II base stocks, it provides excellent thermal endurance, deposit protection, and fuel economy retention during long-distance driving.

PERFORMANCE & SERVICE DRAIN INTERVALS (SAUDI ARABIA SPECIFICATION)

Application Category	Recommended Service Life / Drain Interval
Passenger Cars, Light Trucks & Crossovers	7,000 km – 10,000 km (Optimized for KSA highway and mixed driving)
Stationary Equipment & Commercial Light 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 Efficiency:** Low friction viscosity formulation enhances fuel economy without compromising wear protection.
- ✓ **Piston Deposit Control:** Superior high-temperature detergent package controls carbon deposit formation under thermal stress.
- ✓ **Thermal Stability:** Resists oil oxidation and breakdown during extended high-speed operation across Middle Eastern highways.
- ✓ **Low Volatility:** Reduced NOACK evaporative loss minimizes top-up requirements in extreme ambient temperatures.

TYPICAL PHYSICAL & CHEMICAL PROPERTIES

Property Parameter	Method	Unit	Typical Value
SAE Viscosity Grade	SAE J300	-	10W-30
Kinematic Viscosity @ 100°C	ASTM D445	cSt	10.90
Kinematic Viscosity @ 40°C	ASTM D445	cSt	67.50
Viscosity Index (VI)	ASTM D2270	-	152
Density @ 15°C	ASTM D4052	g/cm ³	0.862
Flash Point (COC)	ASTM D92	°C	224
Pour Point	ASTM D97	°C	-36
Total Base Number (TBN)	ASTM D2896	mg KOH/g	7.8
Apparent Viscosity (CCS) @ -30°C	ASTM D5293	mPa.s (cP)	5,600
Sulfated Ash Content	ASTM D874	% wt	0.79
Evaporation Loss (NOACK)	ASTM D5800	% wt	10.8

PERFORMANCE SPECIFICATIONS & STANDARDS

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