

PREMIUM LUBRICANTS & AUTOMOTIVE SOLUTIONS

GC SYNTHETIC SHIELD SAE 0W-30 API SN

Advanced Synthetic Engine Oil | Balanced Fuel Efficiency & Heavy-Load Thermal Endurance

PRODUCT DESCRIPTION & APPLICATION

GC SYNTHETIC SHIELD SAE 0W-30 API SN is a premium synthetic engine oil designed to balance excellent fuel economy with strong thermal protection. Engineered for modern European, Asian, and American passenger cars and SUVs operating under high ambient temperatures across the Middle East.

PERFORMANCE & SERVICE DRAIN INTERVALS (SAUDI ARABIA SPECIFICATION)

Application Category	Recommended Service Life / Drain Interval
Passenger Cars, Sedans & SUVs	7,000 km – 10,000 km (Optimized for KSA highway & city driving)
Light Fleets & Executive Vehicles	Operating Hours (Under elevated 300 – 250 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

- ✓ **Balanced Fuel & Thermal Efficiency:** Combines low startup friction with robust SAE 30 high-temp oil film stability.
- ✓ **Oxidation Stability:** Prevents oil thickening and varnish formation under continuous heavy loads.
- ✓ **Engine Component Cleanliness:** Dispersant additives keep soot and combustion deposits in suspension.
- ✓ **Low Oil Evaporation:** Reduced NOACK volatility minimizes oil consumption in summer heat.

TYPICAL PHYSICAL & CHEMICAL PROPERTIES

Property Parameter	Method	Unit	Typical Value
SAE Viscosity Grade	SAE J300	-	0W-30
Kinematic Viscosity @ 100°C	ASTM D445	cSt	10.80
Kinematic Viscosity @ 40°C	ASTM D445	cSt	56.80
Viscosity Index (VI)	ASTM D2270	-	178
Density @ 15°C	ASTM D4052	g/cm ³	0.850
Flash Point (COC)	ASTM D92	°C	225
Pour Point	ASTM D97	°C	-42
Total Base Number (TBN)	ASTM D2896	mg KOH/g	8.0
Apparent Viscosity (CCS) @ -35°C	ASTM D5293	mPa.s (cP)	5,300
Sulfated Ash Content	ASTM D874	% wt	0.79
Evaporation Loss (NOACK)	ASTM D5800	% wt	10.1

PERFORMANCE SPECIFICATIONS & STANDARDS

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