

GLADIATOR CS 0W-40

**FULLY SYNTHETIC
PAO BASED PETROL ENGINE OIL
QUICK COLD START**

BULWARK GLADIATOR CS oils are advanced and latest generation premium fully synthetic multi-grade motor oils suitable for use in modern engines of passenger cars, light commercial trucks, sport cars and vans including turbocharged engines. The product is formulated using premium quality Poly Alpha Olefin base stocks and advanced technology additive packages to provide quick cold start, best in class start up wear protection, and all-round superior performance.

BULWARK GLADIATOR CS 0W-40 is recommended for use during all-season operations, especially in extreme cold weather conditions below -30°C in passenger cars running on petrol fuel and made by European, Japanese, American and Asian manufacturers, which require API SN, ACEA A3/B4 performance levels and SAE 0W-40 viscosity.

PERFORMANCE LEVEL*

- API SN
- ACEA A3/B4
- MB 229.3, 229.5
- PORSCHE A40
- VW 502.00/505.00
- BMW LL-01
- RN 0700/0710
- PSA B71 2296

KEY BENEFITS

- Easy cold start and excellent fluidity at low temperature provides engine start-up wear protection.
- Excellent anti-oxidation & anti-corrosion properties provide better engine protection in severe operating conditions and at varying loads.
- Advanced formulation minimizes oil consumption and aids in smoother engine operation in "start-stop" mode.
- Prevents the formation of high and low temperature deposits on the engine components.
- High quality acid neutralizing additives protects the engine from corrosion.

TYPICAL CHARACTERISTICS**

Properties	Test Methods	0W-40
Density @ 29.5°C, Kg/m ³	ASTM D4052	0.850
Kinematic Viscosity @ 100°C cSt	ASTM D7042	13.51
Viscosity Index	ASTM D2270	176
Cold Cranking Viscosity at -35°C, mPa-s	ASTM D5293	4020
Borderline Pumping Viscosity at -40°C, mPa-s	ASTM D4684	12,320
Sulphated Ash, %	ASTM D874	0.82
Flash Point, COC, °C	ASTM D92	232
Foam Stability	ASTM D892	
Seq I		0/0
Seq II		0/0
Seq III		0/0
Pour Point, °C	ASTM D97	-54
Total Base Number, mg KOH/g	ASTM D2896B	8.60

* Performance levels indicated may include licensed API specs or specs that our products meet or exceed

** Typical Characteristics are typical values. Minor variations within the permissible tolerance limits may be expected on the final product.

STORAGE

All packages should be stored under cover. Where outside storage is unavoidable, drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

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