

# GLADIATOR FE 5W-20

**FULLY SYNTHETIC  
FUEL EFFICIENT  
PETROL ENGINE OIL**

**BULWARK GLADIATOR FE** oils are fully synthetic, multi-grade Fuel Efficient (FE) motor oils of the latest generation engineered to meet the requirements of additional fuel efficiency benefits. The product is intended for use in modern high-performance engines of passenger cars, pick-ups and light trucks including turbocharged & supercharged engines, which require Fuel Efficient (FE) category oils.

**BULWARK GLADIATOR FE 5W-20** oil is manufactured using high-quality synthetic base stocks and technologically advanced premium additive packages. Recommended for use in all-season operations, especially gasoline engines of cars from European, American, Japanese and other Asian manufacturers, which require oils with API SN, ILSAC GF-5 performance levels with SAE 5W-20 viscosity.

## PERFORMANCE LEVEL

- API SN/RC; ILSAC GF-5
- Dexos1
- ACEA C3
- MB 229.31, 229.51
- PORSCHE A40; VW 502.00/505.00
- BMW LL-04 and PSA B71 2290

## KEY BENEFITS

- Improved fuel economy with excellent low-temperature capabilities.
- Maximum engine protection against wear in severe urban driving conditions.
- Excellent detergency/dispersant properties prevent formation of deposit.
- Optimized for engines operating under high-load and varying engine speeds.
- Lower oil consumption, maintains higher oil pressure leading to longer engine life.
- Excellent oxidation stability ensures lower deposits and protects against wear.

## TYPICAL CHARACTERISTICS

Properties	Test Methods	5W-20
Density @ 29.5°C, Kg/m3	ASTM D4052	0.852
Kinematic Viscosity @ 100°C cSt	ASTM D7042	8.47
Viscosity Index	ASTM D2270	162
Cold Cranking Viscosity, mPa-s	ASTM D5293	4800 at -30°C
Borderline Pumping Viscosity, mPa-s	ASTM D4684	26,500 at -35°C
Sulphated Ash, %	ASTM D874	0.76
Flash Point, COC, °C	ASTM D92	228
Foam Stability	ASTM D892	
Seq I		0/0
Seq II		0/0
Seq III		0/0
Pour Point, °C	ASTM D97	-48
Total Base Number, mg KOH/g	ASTM D2896B	8.60

PS: The above information is typical data and an indication based on current production. It does not constitute a specification.

## 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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Bulwark International UK Ltd, 34 Woodland Road, Sawston, CB22 3DU, United Kingdom. [info@bulwarkauto.co.uk](mailto:info@bulwarkauto.co.uk)