

# SUPRA

## 10W-30, 20W-50

### MINERAL PETROL ENGINE OIL

**BULWARK SUPRA** oils are mainstream multi-grade mineral motor oils suitable for use in engines of passenger cars, light commercial trucks and vans including turbocharged engines. The product is manufactured using high quality mineral base stocks and advanced technology additive packages to provide the best anti-wear protection and all-round superior performance.

**BULWARK SUPRA 10W-30 and 20W-50** oils are recommended for use during all-season operations in gasoline engines of cars from Japanese, American and Korean manufacturers, where API SL performance is required.

#### PERFORMANCE LEVEL\*

- API SL; CF
- ACEA A3/B3

#### KEY BENEFITS

- High antioxidation and better dispersant properties
- Low oil consumption.
- Minimizes wear and noise level (especially in older and worn engines) during extreme operational conditions.
- Excellent protection against corrosion.

#### TYPICAL CHARACTERISTICS\*\*

Properties	Test Methods	10W-30	20W-50
Density @ 29.5°C, Kg/m3	ASTM D4052	0.878	0.885
Kinematic Viscosity @ 100°C cSt	ASTM D7042	10.25	18.50
Viscosity Index	ASTM D2270	136	127
Cold Cranking Viscosity, mPa-s	ASTM D5293	5190 at -25°C	8350 at -15°C
Borderline Pumping Viscosity, mPa-s	ASTM D4684	30,120 at -30°C	33,120 at -20°C
Sulphated Ash, %	ASTM D874	1.05	1.05
Flash Point, COC, °C	ASTM D92	232	248
Foam Stability	ASTM D892		
Seq I		0/0	0/0
Seq II		0/0	0/0
Seq III		0/0	0/0
Pour Point, °C	ASTM D97	-42	-30
Total Base Number, mg KOH/g	ASTM D2896B	7.45	7.45

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