



Shandong Ribang New Energy Technology Co., Ltd.

Technical Data Sheet (TDS)

Product Model: PAO+SP Esters+ Fully Synthetic 0W-30 Engine Oil

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Basic Product Information

Product Name: PAO+SP Esters+ Fully Synthetic 0W-30 Engine Oil

Viscosity Grade: SAE 0W-30

Compliance Standards: ACEA C3, API SP, GB 11121-2025 Gasoline Engine Oil,
Q/11121RBSH150-2020

Product Description

Formulated with high viscosity index synthetic base oils and multifunctional composite additives, this product adopts a Mid- SAPS low- ash formula. It delivers excellent low- temperature fluidity, outstanding resistance to low- speed pre- ignition (LSPI), high- temperature oxidation stability and anti- wear performance, balancing power output and engine protection. It is suitable for China 6/Euro 6 emission- compliant gasoline and diesel passenger vehicles, turbocharged engines equipped with GPF/DPF exhaust after- treatment systems, high- performance vehicles and light- duty diesel passenger cars.

Performance Level

Friction Performance and Material Compatibility:

The product's excellent material compatibility ensures highly stable power output and reduces wear. Its superior detergent-dispersant performance protects and extends the service life of the engine.

Anti-wear Protection and Shear Stability:

Utilizing advanced additives and other materials, the product exhibits excellent mechanical shear stability, providing comprehensive protection for equipment under load.

Viscosity and Viscosity-Temperature Characteristics:

The product features appropriate viscosity and excellent viscosity-temperature characteristics, demonstrating superior low-temperature performance and good fluidity. It meets the operational demands of machinery under both high and low temperatures, providing protection from the moment the equipment starts up.

Oxidation Stability:

The product's high-quality formulation delivers superior oxidation stability, effectively extending oil life and oil change intervals.

Application Scope and Compliance Specifications

Compliance Standards: API SP/ACEA C3, GB 11121-2025 Gasoline Engine Oil, Q/11121RBSH150-2020

Applicable Vehicles: European gasoline/light- duty diesel passenger vehicles, turbocharged engines and high- power engines. Suitable for European models such as BMW, Mercedes- Benz, Volkswagen and Audi equipped with GPF/DPF exhaust after- treatment systems. It can also be used for other gasoline/light- duty diesel passenger vehicles requiring ACEA C3 specifications.

Typical Physical and Chemical Performance Indicators

Performance	Typical Values	Unit	Test Method
Density (20°C), g/cm³	0.842	g/cm³	SH/T 0604
Kinematic Viscosity (100°C), cSt	12.10	cSt	GB/T 265
Kinematic viscosity (40°C), cSt	-	cSt	GB/T 265
Pour point, °C	-44	°C	GB/T 3535
Flash point (open cup), °C	223	°C	GB/T 3536

The data in this Technical Data Sheet are typical laboratory average values, for technical reference only, and do not constitute a quality commitment or acceptance basis. The Company reserves the right to optimize the formulation and fine-tune technical indicators to ensure the product always meets the requirements of API SP/ACEA C3, GB 11121-2025 and Q/11121RBSH150-2020. Typical product values may vary slightly by production batch in the future, without affecting the core performance of the product.

Packaging Method: Drum

- **Handling/Storage Precautions:**
- **Follow standard lubricant handling procedures.**
- **Store in a well-ventilated, dry location, away from high temperatures and direct sunlight.**
- **For detailed data, please refer to the relevant MSDS.**
- **For additional information, contact Ribang Company.**

July 10, 2026

Disclaimer:

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