



Shandong Ribang New Energy Technology Co., Ltd.

Technical Data Sheet (TDS)

Product Model: SQ Gas-Electric Hybrid 0W-20 Engine Oil

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Basic Product Information

Product Name: SQ Gas-Electric Hybrid 0W-20 Engine Oil

Viscosity Grade: SAE 0W-20

Compliance Standards: API SQ, GF-7A, GB 11121-2025 Gasoline Engine Oil,
Q/11121RBSH150-2020

Product Description

Formulated with deeply refined high viscosity index base oils and high-quality multifunctional composite additives, this product features a low SAPS (sulfated ash, phosphorus, sulfur) eco-friendly formula. It delivers outstanding fuel efficiency, excellent low-temperature fluidity and superior LSPI (Low-Speed Pre-Ignition) resistance. It is specially engineered for gas-electric hybrid engines and modern small-displacement turbocharged engines, and is fully compatible with exhaust after-treatment systems. Compliant with API SQ/GF-7A specifications that meet China 6a emission standards, it performs reliably in daily driving scenarios such as frequent start-stop and urban congested traffic.

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 SQ / ILSAC GF-7A, GB 11121-2025 Gasoline Engine Oil, Q/11121RBSH150-2020

Applicable Vehicles: Passenger vehicles, economy family cars and compact sedans produced after 2020, equipped with gas-electric hybrid systems or small-displacement turbocharged systems, including models of Toyota, Nissan, General Motors, Hyundai, KIA and other brands.

Typical Physical and Chemical Performance Indicators

Performance	Typical Values	Unit	Test Method
Density (20°C), g/cm³	0.839	g/cm³	SH/T 0604
Kinematic Viscosity (100°C), cSt	8.46	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 SQ/GF-7A, 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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