Product Name: GÄNZ SAE 0W-12 API SQ
Viscosity Grade: SAE 0W-12
Quality Level: Advanced Full-Synthetic
API Service: API SQ-RC (Resource Conserving)
OEM Approvals: API SQ / API SP / API SP-RC, ILSAC GF-7B, JASO GLV-2
Drain Interval: Up to 20,000 km

Application:

Designed for **gasoline and hybrid engines**, particularly those engineered for **ultra-low viscosity lubricants**. GÄNZ SAE 0W-12 delivers maximum **fuel economy**, **CO_2 reduction**, and **low-friction performance**, making it ideal for **Hybrid Electric Vehicles (HEVs)** and **Plug-in Hybrid Electric Vehicles (PHEVs)** that operate under frequent stop-start conditions.

Description:

GÄNZ SAE 0W-12 API SQ is a cutting-edge, 100% full-synthetic engine oil formulated for **modern, high-efficiency gasoline and hybrid engines**. Developed with **PAO + ester base oil technology** and enhanced with next-generation additive chemistry, this ultra-low-viscosity oil surpasses API SQ and ILSAC GF-7B performance requirements.

It ensures:

- Superior **fuel economy gains** through friction reduction
- Outstanding **LSPI protection** for TGDI engines
- Cleaner engine performance and **low volatility**
- Excellent **cold temperature flowability**
- Long-lasting protection across **extended drain intervals**

Key Features & Benefits:

1. **Ultra-Low Friction Formula**
   Improves fuel efficiency and reduces CO_2 emissions in hybrid and eco-engine platforms.
2. **LSPI Control**
   Prevents Low-Speed Pre-Ignition in modern turbocharged engines, meeting strict SQ standards.
3. **Outstanding Cold Start Protection**
   Flows instantly at sub-zero temperatures to reduce wear and friction at ignition.
4. **Cleaner Engine Performance**
   Helps control sludge, varnish, and piston deposits under city driving and idle-stop conditions.

5. **Enhanced Catalyst Durability**
   Phosphorus-optimized formulation maintains emission system performance.

Applications:

- Suitable for **API SQ**, **API SP-RC**, and **ILSAC GF-7B** performance levels
- Developed for:
  - **HEVs, PHEVs, and fuel-efficient gasoline engines**
  - **Stop-start urban driving**
  - **Turbocharged or naturally aspirated engines**
- Compatible with OEMs like:
  - **Toyota, Honda, Nissan, Mazda, Subaru, Mitsubishi, Lexus, Suzuki**

Meets & Approvals:

- API SQ
- API SP / SP Resource Conserving
- ILSAC GF-7B
- JASO GLV-2

Typical Technical Properties:

Property	Method	Typical Value
Appearance	Visual	Bright and clear
Density @ 15°C (g/cm³)	ASTM D4052	0.834
Viscosity @ 40°C (mm²/s)	ASTM D445	32.0 – 35.0
Viscosity @ 100°C (mm²/s)	ASTM D445	6.1 – 6.5
Viscosity Index	ASTM D2270	≥170
HTHS @ 150°C (mPa·s)	ASTM D4741	2.0 – 2.2
Pour Point (°C)	ASTM D5950	-50°C
Flash Point (°C)	ASTM D92	≥220°C
Noack Volatility (%)	ASTM D5800	≤12.0
CCS @ -35°C (cP)	ASTM D5293	≤6000
MRV @ -40°C (cP)	ASTM D4684	≤18,000
TBN (mg KOH/g)	ASTM D2896	6.5 – 7.2

Data reflects current formulation and production tolerances. Actual results may vary slightly.

Performance Highlights:

- Meets the needs of **next-gen hybrid and eco-focused engines**
- Minimizes oil consumption and supports long oil change intervals
- Reduces internal engine friction for **maximum fuel economy**
- Maintains performance under **thermal and oxidative stress**

Storage & Handling:

- Store in a dry, clean place below 45°C
- Keep sealed and away from direct sunlight
- Avoid contamination from dust or water

Consult SDS for safety and health details