

STÄRK Semi Synthetic Gasoline Engine Oil SAE 10W40 SM/CF

Product Description

STÄRK 10W-40 SM/CF is a high-performance, low-friction engine oil developed with advanced synthetic technology for reliable year-round protection. It is designed for modern gasoline and diesel passenger vehicle engines, both with and without turbo charging. This premium oil ensures high lubrication reliability, optimal stability, and excellent wear protection, reducing friction and extending engine life. Suitable for diverse driving conditions, it provides a smooth and efficient engine operation, saving fuel and minimizing emissions.

Performance Benefits

- **High Lubrication Reliability:** Maintains optimal performance even under high-stress conditions.
- **Wear Protection:** Advanced formula reduces wear on engine components, extending engine life.
- **Cold Start Performance:** Ensures rapid oil flow and protection during cold starts.
- **Enhanced Cleanliness:** Keeps the engine clean, reducing deposits and sludge formation.
- **Fuel Efficiency:** Minimizes fuel consumption, contributing to reduced pollutant emissions.
- **Compatibility:** Fully miscible with other commercially available motor oils for flexible usage.

Typical Properties

Property	Test Method	Value
Viscosity Grade	SAE J300	10W-40
Density @ 15°C	ASTM D 4052	0.8582 g/cm ³
Kinematic Viscosity @ 40°C	ASTM 445	99.55 mm ² /s
Kinematic Viscosity @ 100°C	ASTM D 445	14.33mm ² /s
Apparent Viscosity by MRV @ -30°C	ASTM D4684	26,300 mPas
Apparent Viscosity by CCS @ -25°C	ASTM D5293	6,100 mPas
Viscosity Index	DIN ISO 2909	145
High Temp High Shear (HTHS)@ 150°C	ASTM D5481	3.8 mPas
Pour Point	ASTM D 5950	-36°C
Flash Point	ASTM D 92	228°C
Evaporation Loss (Noack)	ASTM 5800B	10.50%
Total Base Number (TBN)	DIN ISO 3771	7.8 mg KOH/g
Sulfate Ash	DIN 51575	0.78%

Application

STÄRK 10W-40 SM/CF is recommended for gasoline and diesel engines in passenger vehicles, including those equipped with turbochargers and catalytic converters. It is especially suitable for urban and highway driving under both mild and severe conditions. The oil is compatible with all commercially available engine oils, ensuring easy integration.

Meets and Exceeds

Meets

- API: SM/ CF
- ACEA: A3/B3

OEM Approvals

- VW 501 01 / 505 00,
- MB 229.1,
- Renault RN 0700 / RN 0710

Storage and Handling

- **Storage:** Store in covered areas. Drums should be laid horizontally if stored outdoors to prevent water ingress. Avoid temperatures above 60°C.
- **Safety:** Avoid prolonged skin contact; wash with soap and water if contact occurs. Refer to the Safety Data Sheet (SDS) for detailed handling instructions.
- **Environmental Protection:** Dispose of used oil at authorized collection points. Avoid releasing into the environment.

