

STÄRK Semi Synthetic Gasoline Engine Oil SAE 5W30 SM/CF

Product Description

STÄRK 5W-30 SM/CF is a premium-quality, low-friction synthetic motor oil engineered for gasoline and diesel engines, with or without diesel particulate filters (DPF) and turbochargers. Ideal for modern engines, including gas-driven vehicles (CNG/LPG), STÄRK 5W-30 provides outstanding protection against wear, ensuring reliable performance under various driving conditions. Enhanced with advanced synthetic base oils and optimized additives, this oil improves fuel efficiency, minimizes emissions, and supports extended oil change intervals up to 10,000 km, depending on manufacturer recommendations. Its high lubrication stability and excellent cold start properties make it the optimal choice for drivers seeking both performance and durability.

Performance Benefits

- **Advanced Wear Protection:** Reduces friction and extends engine life, even under high-load conditions.
- **Optimized Fuel Efficiency:** Low friction properties contribute to lower fuel consumption and reduced emissions.
- **Outstanding Cold Start Protection:** Provides quick lubrication to critical engine parts during cold starts, reducing startup wear.
- **High Oxidation Stability:** Maintains stability at high temperatures, minimizing deposit formation for a cleaner engine.
- **Broad Compatibility:** Fully miscible with other motor oils, enabling seamless integration with existing oils.

Storage and Handling

- **Storage:** Store under cover, ideally below 60°C, and avoid direct sunlight, freezing, or extreme temperatures. If outdoor storage is unavoidable, drums should be laid horizontally to prevent water ingress and label damage.
- **Environmental Safety:** Dispose of used oil responsibly, following local regulations, and avoid contamination of soil, drains, or water sources.

Application

- Recommended for all gasoline and diesel engines, including those with diesel particulate filters (DPF) and turbochargers.
- Suitable for high-performance vehicles requiring ACEA A3/B3, API SM, or API CF standards.
- Optimized for gas-driven (CNG/LPG) passenger cars.

Meets and Exceeds

Meets

- ACEA A3/B3
- API SM/CF
- ILSAC GF-4

OEM Approvals

- BMW Longlife-04 (up to 2018)
- Ford WSS-M2C 917-A
- Mercedes-Benz MB 229.51
- Opel GM-LL-A-025 / GM-LL-B-025
- VW 505 00 / 505 01



Typical Properties

Property	Test Method	Value
Viscosity Grade	SAE J300	5W-30
Density @ 15°C	DIN 51757	0.8456 g/cm ³
Kinematic Viscosity @ 40°C	ASTM D445	68.11 mm ² /s
Kinematic Viscosity @ 100°C	ASTM D445	11.55 mm ² /s
Apparent Viscosity by MRV @ -35°C	ASTM D4684	22,480 mPaS
Apparent Viscosity by CCS @ -30°C	ASTM D5293	6,000 mPaS
Viscosity Index	DIN ISO 2909	165
High Temp High Shear (HTHS) @ -150°C	ASTM D5481	3.1 mPas
Pour Point	ASTM D 5950	-39°C
Flash Point	ASTM D 92	225°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%

