

STÄRK Semi Synthetic Gasoline Engine Oil SAE 10W30 SM/CF

Product Description

STÄRK 10W-30 SM/CF is a premium semi-synthetic motor oil engineered to deliver exceptional performance for both gasoline and diesel engines. Designed with advanced synthetic technology, it provides superior corrosion and wear protection, even under extreme conditions. This oil's low-friction formula is particularly suitable for engines with catalytic converters, ensuring quick lubrication of critical engine parts while delivering fuel economy benefits and reduced emissions. Its additives are specially adapted for maritime applications, meeting NMMA FC-W Catalyst Compatible® standards for leading marine engines. STÄRK 10W-30 also enhances engine longevity, offering outstanding protection against deposits, sludge, and oxidation, making it ideal for extended oil change intervals as specified by manufacturers. performance and durability.

Performance Benefits

- **Outstanding Wear Resistance:** Extends engine life by protecting against wear, especially under high-load and high-temperature conditions.
- **Rapid Oil Penetration:** Ensures quick lubrication for critical engine components, especially during cold starts.
- **Corrosion Protection:** Protects against corrosion in challenging environments, ideal for marine applications.
- **Fuel Economy:** Reduces fuel consumption due to its low-friction formula.
- **Versatile Compatibility:** Tested and safe for turbocharged engines and catalytic converters; compatible with various engine oils.
- **Excellent Cold-Start Performance:** Enhances performance in low temperatures and provides instant lubrication.
- **High Stability:** Optimized for long-term use, resisting oxidation, sludge buildup, and thickening.

Usage Instructions

For optimal performance, follow the assembly or vehicle manufacturer's specifications. To ensure maximum effectiveness, use STARK 10W-30 SM/CF unmixed with other motor oils.

Application

- Suitable for use in gasoline-driven inboard and outboard engines, turbocharged and naturally aspirated engines in passenger vehicles and light commercial trucks.
- Compatible with modern engines fitted with turbochargers, catalytic converters, and engines requiring NMMA FC-W Catalyst Compatible® oil standards.

Meets and Exceeds

Meets

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

Approvals

- VW 501. 01 / 505.00
- RN 700, RN 710
- MB 229.3
- Honda Marine, Mercury Marine, NMMA FC-W, Selva, Suzuki Marine, Tohatsu, Volvo Penta, Yamaha

Storage and Handling

Store covered in a cool, dry place. If stored outside, lay drums horizontally to prevent water contamination and label damage. Avoid temperatures above 60°C, direct sunlight, and freezing conditions.

Health & Safety

Avoid prolonged skin contact. In case of contact, wash with soap and water. Prevent environmental contamination by disposing of used oil responsibly at an authorized collection center. Refer to the Material Safety Data Sheet (MSDS) for additional information.



Typical Properties

Property	Test Method	Value
Viscosity Grade	SAE J300	10W-30
Density @ 15°C	DIN 51757	0.8578 g/cm ³
Kinematic Viscosity @ 40°C	ASTM D7042-04	74.05mm ² /s
Kinematic Viscosity @ 100°C	ASTM D7042-04	11.33mm ² /s
Apparent Viscosity by MRV @ -30°C	ASTM D4684	24,600 mPas
Apparent Viscosity by CCS @ -25°C	ASTM D5293	6,250 mPas
Viscosity Index	DIN ISO 2909	145
High Temp High Shear (HTHS) @ -150°C	ASTM D5481	3.0 mPas
Pour Point	DIN ISO 3016	-36°C
Flash Point	DIN ISO 2592	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%

