

## STÄRK Semi Synthetic Gasoline Engine Oil SAE 20W50 SM/CF

### Product Description

**STÄRK 20W-50 SM/CF** is a high-performance Semi Synthetic engine oil formulated with premium base stocks and advanced additive technology, designed for both gasoline and light-duty diesel engines. This multi-grade oil is engineered to provide optimal oxidation resistance, superior deposit control, and excellent wear protection across a range of operating conditions. It is well-suited for engines operating in high temperatures and is particularly effective in urban driving conditions.

### Performance Benefits

- **High Thermal Stability:** Maintains viscosity and protects the engine under high-temperature conditions.
- **Enhanced Wear Protection:** Provides a durable oil film to minimize engine wear in challenging conditions.
- **Oxidation Resistance:** Reduces oil thickening and extends oil life, improving engine cleanliness.
- **Optimized for Urban Driving:** Ideal for frequent stop-and-go traffic with consistent lubrication protection.
- **All-Weather Performance:** Excellent cold-start performance and low-temperature flow characteristics.

### Application

**STARK 20W-50 SM** is recommended for naturally aspirated and turbocharged gasoline engines in passenger cars, light commercial vehicles, four-stroke gasoline engines, and various portable power equipment.

### Meets and Exceeds

#### Meets

- API: SM/CF
- ACEA A3/B3

#### Approvals

- VW: 501.01 / 505.00
- Renault: RN 700 / RN 710

### Health & Safety, Environment

Dispose of used oil responsibly at authorized collection points. Avoid discharging oil into drains, soil, or water bodies.

### Typical Properties

Property	Test Method	Value
Viscosity Grade	SAE J300	20W-50
Density @ 15°C	ASTM D 4052	0.8768 g/cm <sup>3</sup>
Kinematic Viscosity @ 40°C	ASTM D445	156.8 mm <sup>2</sup> /s
Kinematic Viscosity @ 100°C	ASTM D445	18.38 mm <sup>2</sup> /s
Apparent Viscosity by MRV @ -20°C	ASTM D4684	20,450 mPaS
Apparent Viscosity by CCS @ -15°C	ASTM D5293	8150 mPaS
Viscosity Index	DIN ISO 2909	131
High Temp High Shear (HTHS) @150°C	ASTM D5481	4.2 mPaS
Pour Point	ASTM D 5096	-27°C
Flash Point	ASTM D 92	245°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%



## Storage and Handling

- **Storage:** Keep in a covered, cool, and dry place. When outdoor storage is necessary, position containers horizontally to prevent water ingress and protect labels. Do not expose to temperatures above 60°C, direct sunlight, or freezing conditions.
- **Health & Safety:** Avoid prolonged skin contact with oil. Use appropriate safety measures, such as gloves and eyewear, if direct contact with the oil is necessary. Refer to the Safety Data Sheet (SDS) for detailed health and safety guidelines.

