

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

### Product Description

**STÄRK 20W-50 SL/CF** is a premium semi-synthetic motor oil engineered for gasoline and diesel engines, including turbocharged or naturally aspirated engines. Its advanced formulation provides outstanding protection under extreme driving conditions and helps maintain engine cleanliness and efficiency. With excellent thermal stability and wear resistance, STARK 20W-50 ensures optimal engine performance and long-lasting durability.

### Application

- Ideal for high-performance gasoline and diesel engines, including turbocharged models.
- Suitable for vehicles operating with unleaded gasoline, liquefied petroleum gas (LPG), or diesel fuels.
- Recommended for city, highway, and heavy-duty conditions, across all seasons.
- Especially effective in high-mileage engines and vehicles under high-stress conditions.

### Performance Benefits

- **Superior Wear Protection:** Prolongs engine life by reducing internal friction.
- **Engine Cleanliness:** Minimizes sludge, deposits, and varnish, ensuring peak performance.
- **Oxidation Resistance:** Prevents oil degradation and maintains viscosity over long intervals.
- **High Viscosity Stability:** Provides consistent protection at high operating temperatures.
- **Cold-Start Protection:** Ensures quick lubrication during cold starts.
- **Compatibility:** Fully compatible with catalytic converters.
- **Anti-Corrosion:** Protects critical engine components from rust and corrosion.

### Meets and Exceeds

- Meets:**
- API: SL/CF
  - ACEA: A3/B3
- Approvals:**
- MB 229.1
  - VW 501.01 / 505.00

### Typical Properties

Property	Test Method	Value
Viscosity Grade	SAE J300	20W-50
Density @ 15°C	DIN 51757	0.8745 g/cm <sup>3</sup>
Kinematic Viscosity @ 40°C	ASTM D7042-04	155.1 mm <sup>2</sup> /s
Kinematic Viscosity @ 100°C	ASTM D7042-04	18.12 mm <sup>2</sup> /s
Apparent Viscosity by MRV @ -20°C	ASTM D4684	28,450 mPas
Apparent Viscosity by CCS @ -15°C	ASTM D5293	8150 mPas
Viscosity Index	DIN ISO 2909	130
High Temp High Shear (HTHS)150°C	ASTM D5481	4.2 mPas
Pour Point	DIN ISO 3016	-30°C
Flash Point	DIN ISO 2592	238 °C
Evaporation Loss (Noack)	ASTM 5800B	8.8%
Total Base Number (TBN)	DIN ISO 3771	7.5 mg KOH/g



## Health & Safety, Environment

- Avoid prolonged or repeated contact with used oil. Wash thoroughly with soap and water after handling.
- Do not dispose of used oil in drains or the environment. Use authorized collection points for disposal.
- Refer to the Material Safety Data Sheet (MSDS) for additional information.

## Storage and Handling

- Store under cover, away from direct sunlight and extreme temperatures.
- For outdoor storage, lay drums horizontally to prevent water contamination and label damage.
- Maintain storage temperature between -10°C and 60°C.

