

## STÄRK Fully Synthetic Gasoline Engine Oil SAE 0W40 SN/CF

### Product Description

**STÄRK 0W-40 SN** is a premium, fully synthetic engine oil formulated to meet the demands of modern gasoline and diesel engines. It is particularly suited for turbocharged, multi-valve, and direct injection engines. Designed to offer high performance under extreme conditions, STÄRK 0W-40 SN supports smooth operation with enhanced fuel efficiency and reduced CO<sub>2</sub> emissions, making it ideal for urban, highway, and demanding driving environments. Optimized for long oil change intervals, this oil meets the stringent requirements of many leading OEMs.

### Application

**STÄRK 0W-40 SN** is suitable for use in gasoline and diesel engines, including those with turbo charging and catalytic converters. It is compatible with a wide range of vehicles, meeting or exceeding standards for vehicles requiring API SN/CF, ACEA A3/B3, A3/B4 specifications, and OEM approvals.

### Performance Benefits

- **Superior Wear Protection:** Delivers high lubrication reliability, reducing engine wear and extending engine life.
- **Fuel Economy Enhancement:** Advanced synthetic base oils minimize internal friction, promoting fuel savings.
- **High Temperature Stability:** Maintains consistent viscosity at high temperatures for reliable engine performance.
- **Cold Start Efficiency:** Rapid oil flow during cold starts reduces friction and wear, enhancing engine protection.
- **Long Drain Intervals:** Formulated for durability, supporting extended oil change intervals.

### Meets and Exceeds

#### Meets

- API: SN/CF
- ACEA: A3/B4-12
- ILSAC: GF-5 OEM Approvals :

#### Approvals

- BMW: Longlife-01
- MB-Approval: 229.3
- MB-Approval: 229.5
- Porsche: A40
- VW: 502.00 / 505.00
- Renault: RN0700
- Renault: RN0710
- Fiat: 9.55535-M2
- Ford: WSS-M2C937-A

### Typical Properties

Property	Test Method	Value
Viscosity Grade	SAE J300	0W-40
Density @ 15°C	DIN 51757	0.8338 g/cm <sup>3</sup>
Kinematic Viscosity @ 40°C	ASTM D7042-04	81.76 mm <sup>2</sup> /s
Kinematic Viscosity @ 100°C	ASTM D7042-04	14.4 mm <sup>2</sup> /s
Viscosity, MRV @ -40°C	ASTM D4684	22,280 mPas
Viscosity, CCS @ -35°C	ASTM D5293	5680 mPas
Viscosity Index	DIN ISO 2909	178
High Temp High Shear (HTHS)	ASTM D5481	3.8 mPas
Pour Point	DIN ISO 3016	-48°C
Flash Point	DIN ISO 2592	223°C
Evaporation Loss (Noack)	ASTM 5800B	10%
Total Base Number (TBN)	DIN ISO 3771	10.15 mg KOH/g



## Health, Safety and Environment

This product is not expected to pose health risks when used as intended. Avoid prolonged skin contact and dispose of used oil responsibly. Consult the Material Safety Data Sheet (MSDS) for detailed safety guidelines.

## User Advice

- **Oil Change Intervals:** Adhere to the manufacturer's recommended oil change intervals for optimal performance.
- **Compatibility:** STÄRK 0W-40 SN is compatible with a wide range of gasoline and diesel engines but consult your vehicle's manual for recommended specifications.
- **Mixing with Other Oils:** For best results, avoid mixing STÄRK 0W-40 SN with other engine oils.

## Storage and Handling

- **Storage Conditions:** Store in a cool, dry place away from direct sunlight and sources of extreme temperatures.
- **Container Handling:** Ensure containers are tightly closed and stored horizontally if outdoors to prevent water ingress and damage to drum markings.

