

## STÄRK Fully Synthetic Gasoline Engine Oil SAE 5W20 SN/CF

### Product Description

**STÄRK 5W20 SN** is a premium, full-synthetic motor oil formulated for advanced gasoline engines, offering excellent wear protection, low-friction efficiency, and superior cleanliness. Designed to meet the demands of modern engines, including those with stop/start technology and emission control systems.

### Application

- **Engine Type Compatibility:** Recommended for advanced gasoline engines, including turbocharged, multi-valve, and direct-injection engines.
- **OEM Specifications:** Compatible with vehicles requiring API SN, ACEA C3, and ILSAC GF-5 oils.
- **Environmental Conditions:** Suitable for a wide range of operating environments, especially beneficial in extreme temperature conditions.

### Performance Benefits

- **Full Synthetic Formula:** Provides superior wear protection, enhancing engine durability and performance.
- **Enhanced Fuel Economy:** Low-friction formulation promotes fuel efficiency and reduced emissions.
- **Thermal and Oxidation Stability:** Excellent high-temperature stability ensures performance over extended drain intervals.
- **Cold Start Performance:** Exceptional low-temperature fluidity facilitates rapid engine protection in cold conditions.
- **Engine Cleanliness:** Minimizes sludge and deposit formation, maintaining engine cleanliness for improved efficiency.

### Meets and Exceeds

#### Meets

- API: SN
- ACEA: C3
- ILSAC: GF-5

#### Approvals

- Chrysler: MS-6395
- GM: 6094M, 4718M, dexos1™ Gen 2
- Ford: WSS-M2C945-A, WSS-M2C930-A, WSS-M2C945-B1
- Volvo: VCC RBSO-2AE
- Jaguar Land Rover: STJLR.03.5004.

### Typical Properties

Property	Test Method	Value
Viscosity Grade	SAE J300	5W-20
Density @ 15°C	DIN 51757	0.8451 g/cm <sup>3</sup>
Kinematic Viscosity @ 40°C	ASTM D7042-04	49.69 mm <sup>2</sup> /s
Kinematic Viscosity @ 100°C	ASTM D7042-04	8.768mm <sup>2</sup> /s
Viscosity, MRV @ -35°C	ASTM D4684	16780 Cp
Viscosity, CCS @ -30°C	ASTM D5293	5248 mPas
Viscosity Index	DIN ISO 2909	159
High Temp High Shear (HTHS)	ASTM D5481	2.8 mPas
Pour Point	DIN ISO 3016	-42°C
Flash Point	DIN ISO 2592	228°C
Evaporation Loss (Noack)	ASTM 5800B	8.1 %
Total Base Number (TBN)	DIN ISO 3771	10.13 mg KOH/g



## Health, Safety and Environment

This product is not expected to produce adverse health effects when used for its intended purpose. Refer to the Safety Data Sheet (SDS) for additional handling and disposal information

## User Advice

STÄRK 5W-20 SN is compatible with modern engines requiring low-viscosity, low-SAPS lubricants for fuel efficiency. Refer to your vehicle's owner manual before use to confirm compatibility

## Storage and Handling

- **Storage Temperature:** Store in a cool, dry place, preferably below 60°C. Avoid exposure to direct sunlight, freezing temperatures, and extreme temperature variations.
- **Container Handling:** Keep containers tightly sealed and store them in a horizontal position to prevent contamination.
- **Disposal:** Dispose of used oil in compliance with local regulations to protect the environment.

