



# PRODUCT INFORMATION

## Engine Coolant Temperature Sensor

- High precision and accuracy, ensuring optimal engine performance
- Designed to withstand harsh engine conditions
- Accurate temperature readings from Hella sensors help maintain optimal engine temperature, contributing to better fuel efficiency and reduced emissions.
- Wide range of sensors compatible with various vehicle makes and models, making it easier to find the right fit for your vehicle.

### PRODUCT FEATURES

HELLA is among the leading providers in the area of sensor systems - our coolant temperature sensor also meet the highest functional and quality demands. Engine temperature coolant sensors (ETC) are an integral part of the cooling circuit. It detects the engine operating temperature. Should it need a fixed target value, a respective warning message is triggered. This allows avoiding greater engine damage early, e.g. a defective cylinder head gasket.

**Function:** The temperature of the engine coolant is measured by an engine coolant temperature sensor, which informs the engine control unit (ECU) when to make adjustments to fuel injection and ignition timing.

The coolant temperature sensor operates within the vehicle's ECU by delivering regulated voltage to it. The resistance to the transmitted voltage changes based on the temperature of the engine coolant, allowing the ECU to monitor the temperature. The ECU utilizes the resistance measurement to determine the temperature of the engine coolant and makes adjustments to ignition timing, fuel mixture, and the cooling fan to help maintain a consistent temperature.

This upkeep is crucial for ensuring the safety of your vehicle and for optimal performance of the coolant system

**Product Replacement / Lifespan:** Faulty engine coolant temperature sensors are a frequent issue. If the engine cooling system is not maintained according to the manufacturer's recommendations, the sensor may corrode where it enters the engine coolant passages. Typically, the engine coolant temperature sensor needs replacement around 100,000 miles. However, failure to maintain the engine cooling system properly could cause the sensor to fail much sooner.

**Coverage:** Hella's Engine Temperature Coolant Sensors offer extensive coverage, compatible with 94 million vehicles in the USA and 19 million in Canada. These sensors are designed for a wide range of top automotive brands, including Acura, Alfa Romeo, Audi, BMW, Chevrolet, Ford, Honda, Lexus, Mercedes-Benz, Nissan, Toyota, Volkswagen, and many more. With this comprehensive vehicle coverage, Hella ensures reliable performance and compatibility across various models, providing high-quality solutions for automotive temperature control systems.

# HELLA ENGINE COOLANT TEMPERATURE SENSORS

Product features, specifications and availability are subject to change without notice.

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