



# PRODUCT INFORMATION

## COOLANT THERMOSTATS

- Guaranteed HELLA craftsmanship
- Detect pollutants such as carbon monoxide or unburnt hydrocarbons and forward information to the control unit of the vehicle air conditioning system for further processing
- Vehicle air conditioning system uses the data from the air quality sensor to independently and optimally control various parameters, such as interior temperature, the position of the recirculation flap, or the fan speed
- Designed to meet or exceed factory standards

## PRODUCT FEATURES

HELLA coolant thermostat functions as a temperature-controlled valve, regulating coolant flow to help the engine warm up quickly and maintain a stable, optimal operating temperature, preventing overheating or overcooling by opening to the radiator as needed, ensuring efficiency and performance. HELLA thermostats are built to OE standards, often including features like electric heating elements for faster warm-up and fuel savings, and are sold as complete kits for easy installation.

Used to quickly reach the optimal engine temperature and a comfortable interior temperature. The combination of a wax thermostat and an electric heating element ensures a fuel-saving higher operating temperature. A torque increase of approximately 2 to 3 % is achieved by lowering the temperature under load. An installation kit comprising the thermostat and gasket (if required for installation) is supplied for quick and easy installation in the workshop.

### Function:

- Rapid Warm-Up: When the engine is cold, the thermostat stays closed, blocking coolant from the radiator and allowing the engine to reach its efficient operating temperature faster.
- Temperature Regulation: Once the optimal temperature (e.g., 82°C) is reached, the thermostat opens, allowing coolant to flow to the radiator for cooling; it then modulates (partially opens/closes) to maintain that ideal range.
- Prevent Overheating/Overcooling: By controlling coolant circulation, it prevents the engine from getting too hot or staying too cool, which is crucial for performance, emissions, and longevity.

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## Key features:

- OE-Quality: Manufactured to meet or exceed original equipment specifications for reliable fit and performance.
- Enhanced Warm-Up: Some models incorporate electric heating elements for even faster warm-up, boosting fuel economy and torque.
- Complete Kits: Often supplied with necessary gaskets for a simple, complete installation.

## Symptoms of a Failing Thermostat

- Engine overheating.
- Inconsistent or fluctuating temperature gauge readings.
- Coolant leaks.
- Poor fuel economy.

## TYPE OF THERMOSTATS

### THERMOSTAT INSERTS

- Used in millions of applications.
- Cost-effective and tried-and-tested technology.
- Condensing and expanding wax in pressure-resistant housing starting at a specified temperature.
- Pin is pushed out of the housing, the disc valve is lifted and the large cooling circuit is opened.
- This ensures that the engine is kept at an optimum operating temperature.



### HOUSING/INTEGRAL THERMOSTATS

- Integral thermostats
- Further development of thermostat inserts.
- All components, such as a thermostat insert, cover and seal are perfectly integrated.
- Integral thermostats can be directly flange-mounted to the engine block.
- Casing thermostats
- Complete thermostats for hose connection.
- Unlike integral thermostats, they already have a casing with a perfectly designed mixing chamber.
- They can be flange-mounted directly to the engine block or cooling water hoses (only valid for one type)..



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

### HELLA Automotive Sales, Inc.

611 Highway 74 S, Suite 102  
Peachtree City, GA, 30269  
Tel: +1 (877) 224-3552  
Fax: +1 (770) 631-7574  
[www.hella.com/us/](http://www.hella.com/us/)  
[www.myhellalights.com](http://www.myhellalights.com)