



Genuine BMW Fuel Filters

- **High grade filter materials**
- **Excellent durability**
- **Better corrosion protection for diesel fuel**
- **High operating safety – with diesel or petrol**
- **Designed for high pressure fuel feed to BMW engines**
- **Secure seal even in an accident**

Function in detail

Depending on the vehicle and construction, the fuel filter is located either in the tank or on the fuel line between the tank and motor.

- Particles are filtered out of petrol or diesel fuel; the water contained in diesel fuel is also filtered out.
- Genuine BMW Fuel Filters prevent contamination or corrosion from damaging the highly sensitive injection system or the injector nozzles.
- Genuine BMW diesel filters also feature heating, to prevent the flocculation of the paraffin contained in diesel at lower temperatures.

The fuel filter has a crucial role to play in the vehicle:

- Starting problems caused by incorrect fuel flow rates eliminated.
- With the correct filter performance the engine develops full power.
- Contaminants in the engine and/or engine damage prevented.

Benefits

High-grade filter materials

The modern fuel injection systems in BMW engines are especially dependent on pure, clean fuel. For diesel vehicles especially, the quality of the fuel filter plays a crucial role because diesel injection systems are very sensitive to contaminants. Genuine BMW Fuel Filters use high-grade materials that can filter particles up to 4 μm (0.004 millimeter!) or 99.5%.

Excellent durability

Through precisely calculated flow behaviour, the filter achieves consistent absorption of particles and thus functions longer.

Diesel fuels: better corrosion protection

Diesel fuel contains water. Genuine BMW Fuel Filters eliminate the water content and thus prevent corrosion of injection nozzle elements.

High operating safety with diesel

In the winter, diesel tends to coagulate into a solid form and clog the filter due to the relatively high percentage of paraffin. All BMW diesel models have a heater element in the fuel filter – tested and matched to the flow rate – that prevents the paraffin from coagulating at very cold ambient temperatures.

Designed for the high pressure demanded by the BMW engine

Modern BMW fuel injection engines also place high demands on the fuel filter systems: The filter housings are made of heat and pressure resistant aluminium for trouble-free functioning under high pressure.





Secure seal even in an accident

The casings of Genuine BMW Fuel Filters are specially welded using inert gas so that the housing remains sealed even under extreme deformation, preventing fuel leakage and thus reducing the risk of fire.

Quality assurance

The cleaning effectiveness of the fuel filter is crucially dependent on the paper quality. Paper samples are continuously tested during production.

Comprehensive Tests

The mass per unit area of the paper must still conform to BMW specifications under tests conducted, for example, a 30 minute heating to +100 °C and subsequent conditioning. Using similar methods, the paper's air permeability and tensile strength is checked.

Cleaning efficiency

In the bubble test, the pressure required to let air bubbles pass through a paper sample is measured. The permeability of the largest pores inside and outside of the kinks of the folds and the normal pores outside the kinks are separately tested.

Pressure resistance test

To reduce fire hazard in the event of an accident, a clamped circular sample is tested to destruction by uniformly increasing pressure during the burst resistance test. The durability of the fuel filter must, according to BMW's strict standards, surpass the required German Industry Standard.

Advantages of Genuine BMW Fuel Filters

- High grade filter material
- Excellent durability
- Better corrosion protection for diesel fuel
- High operating safety – with diesel or petrol
- Made of heat and pressure-resistant aluminum
- Reduced fire hazard through inert gas sealing

