On the Safe Side with Bosch Cabin Filters Beware of Inferior Filters!



High-Quality Cabin Filter Filter Medium

Pure air through several well-coordinated filter layers



Reliable filtration performance through high-quality fibers





Low-quality fibers, insufficient number of fibers

Too thin and

coordinated

filter layers

badly

► Low filtration performance

Low-Quality Cabin Filter **Filter Medium**

Unpleasant Consequences

▶ Particles, pollen and fine dust penetrate to the interior of the vehicle

Stability and increased filter surface through special embossing of the filter medium







Low-quality filter medium without embossing

► Reduced service life

High-Quality Cabin Filter **Activated Carbon**

Reliable adsorption of harmful gases and odors through

- ► High-quality activated carbon
- ► Sufficient amount of activated carbon
- ► Firm connection with the carrier fleece



High-Quality Cabin Filter **Stability**

Robust pleat geometry – even when exposed to

Activated Carbon Usage of ► Low-quality activated carbon

Low-Quality Cabin Filter

- ► Insufficient amount of activated carbon
- ► Irregular distribution

Low-Quality Cabin Filter **Stability**

Low-Quality Cabin Filter

► Harmful gases and odors get through to the interior of the vehicle

> Unpleasant Consequences

> > Unpleasant

Consequences

Unpleasant

Consequences

Unstable pleat

► Unreliable filtration performance

humidity



geometry

High-Quality Cabin Filter Fit

Shape is exactly geared to the installation space - and is still highly flexible in order to ease the installation under difficult circumstances





Fit

Incorrect fit and bad workmanship

► Bypass of unfiltered air and accumulation of dirt on the air conditioning

On the Safe Side with Bosch Oil Filters Beware of Inferior Filters!



Possible Expensive

Consequences

High-Quality Oil Filter **Filter Medium**

High particle-separation rate by microporous filter medium



Large dust-holding capacity through high number of pleats





Small number of pleats

Low-quality

filter medium

- Increased wear of the engine
- Possible increase in fuel consumption
- Inadequate filtration of the oil
- Increased wear up to engine damage



Reduced service life

Reliable filtration thanks to meticulous processing and stable pleat geometry





Unstable pleat geometry, excess of glue

- Reduced engine performance
 Possible increase in
- Possible increase in fuel consumption

High-Quality Oil Filter Leakproofness

Low-Quality Oil Filter Leakproofness

Low-Quality Oil Filter

Filter Medium

Possible Expensive Consequences

Corrosion-resistant housing prevents oil leakage



Robust felt ring prevents oil leakage





Corrosion caused by spray water Increased wear up to engine damage
Environmental pollution caused by leaking oil



Poorly fitting felt ring

- Loss of the internal leakproofness, poor filtration of the oil
- Increased wear up to engine damage



High-quality sealing made of a special rubber prevents oil leakage





Damaged, porous sealing

- engine damage
- Environmental pollution caused by leaking oil

High-Quality Oil Filter Bypass Valve

Accurately set valve-opening pressure ensures reliable lubrication of the engine – even under cold conditions and in case of a clogged filter.







Poor functioning of the bypass valve Increased wear up to engine damage
Bursting of the oil filter

On the Safe Side with Bosch Air Filters Beware of Inferior Filters!



High-Quality Air Filter **Filter Medium**

Low-Quality Air Filter Possible Expensive **Filter Medium**

High particle-separation rate by microporous filter medium



Large dust-holding capacity through high number of pleats





Low-quality filter medium

- Increased wear of the engine
- Accumulation of dirt on the air-mass meter



Small number of pleats

Reduced service life

Moisture resistance through impregnation with special resin





Conglomeration of pleats due to wetness

- Poor fuel-mixture preparation
- Reduced engine performance
- Increased fuel consumption

Inflammation protection through special coating (according to the OE equipment)





Fire hazard caused by aspirated cigarette stubs or backfire

► Vehicle fire

High-Quality Air Filter **Stability**

Permanently stable pleat geometry through sufficiently dimensioned glue beads



Low-Quality Air Filter Possible Expensive Consequences



Unstable pleat geometry

Reduced service life

- Poor fuel-mixture preparation
- Reduced engine performance
- Increased fuel consumption

High-Quality Air Filter Seal

Low-Quality Air Filter Possi

Possible Expensive

Consequences

No bypass of unfiltered air due to high-quality polyurethane seal



Seal

Poor processing, low-quality sealing material

Excessive use of

sealing material

- Increased wear of the engine
- Accumulation of dirt on the air-mass meter

 Reduced service life
Poor fuel-mixture preparation

- Reduced engine performance
- Increased fuel consumption

No loss of filter surface through careful processing of the sealing material





On the Safe Side with Bosch Fuel Filters Beware of Inferior Filters!



High-Quality Fuel Filter Filter Medium

High particle-separation rate thanks to microporous multi-layer filter medium



Large dirt-holding capacity through high number of pleats





Possible Expensive Consequences





- ► Increased wear of the engine
- ► Injector clogging
- ► Corrosion damage on injection system, engine and pump



Small number of pleats

- ► Increased wear of the engine caused by particles
- ► Reduced service life

Reliable filtration thanks to stable pleat geometry





Unstable pleat geometry

- ► Insufficient fuel filtration
- ► Increased wear of the engine

High-Quality Fuel Filter **Tightness**

Low-Quality Fuel Filter Tightness

Possible Expensive Consequences

Corrosion-resistant housing prevents fuel leakage











Corrosion caused by spray water

Bypass of

missing

- ► Hazards caused by leaking fuel ▶ Environmental pollution caused by leaking fuel
- unfiltered fuel caused by the connection of the end pleats
 - ► Increased wear of the engine



High-quality sealing made out of a special rubber prevents any fuel leakage





Damaged, porous sealing

- ► Hazards caused by leaking fuel
- ▶ Environmental pollution caused by leaking fuel

High-Quality Fuel Filter Cleanliness

Protection cap on the clean side (outlet) of the filter to prevent any soiling during transport and storage





Possible Expensive Consequences



Missing protection cap facilitates filter soiling

- ► Increased wear of the engine caused by dirt particles
- ► Reduced service life of the filter