

Tips and Technology

For Bosch Partners

Current information for the successful workshop No. 04/2015

Miscellaneous Topics



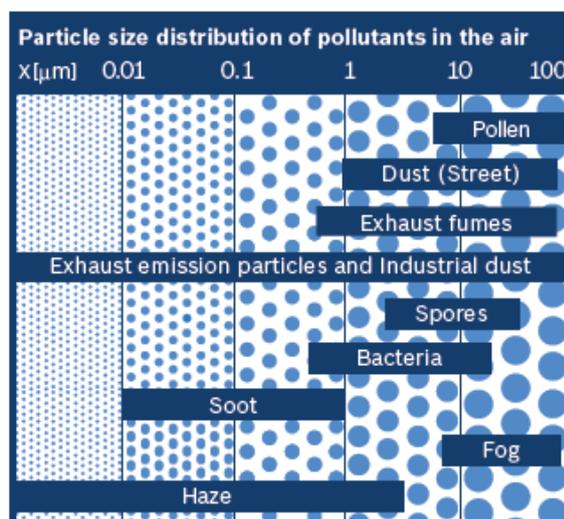
BOSCH
Invented for life

Cabin Air Filters

Like a vacuum cleaner, a vehicle collects contaminants while driving. The amount of exposure to contaminants within the vehicle can therefore be up to six times greater than that of pedestrians at the edge of the road. The cabin air filters by Bosch protect from pollen, dust, dirt particles and pollutants. This is an important form of protection, particularly for people with allergies and asthma. Cabin air filters should therefore be changed every 15,000 km or once a year.

Changing the cabin air filter

The cabin air filter protects passengers from pollen, dust and pollutants. Active charcoal filters offer additional protection against harmful and bad smelling gases. In addition, a cabin air filter protects the air-conditioning system.

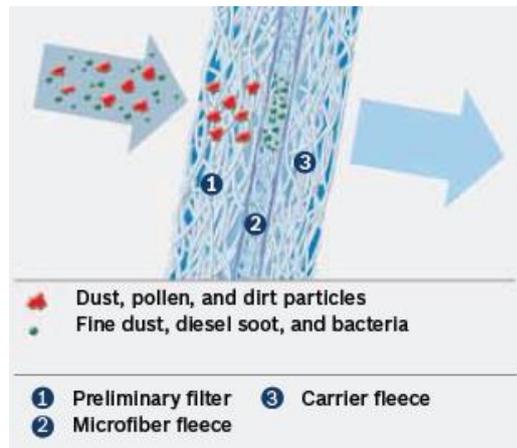


The electrostatically charged filter material of a cabin air filter even collects particles smaller than 0.1 µm which can be respirated.

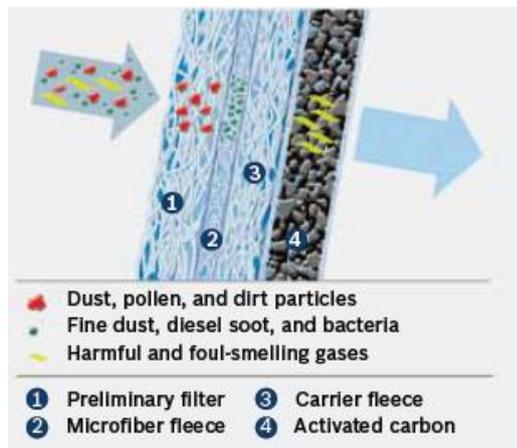
By way of comparison, a human hair is approximately 7.0 µm thick.

Especially people suffering from allergies should use a high-performance cabin air filter which will help reduce hayfever and sneezing. This also enhances safety in traffic. When you sneeze, you are momentarily blind. In addition, the improved air quality in the car helps you concentrate. Fewer deposits collect on the windshield which reduces blinding.

Standard and active charcoal cabin air filters



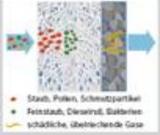
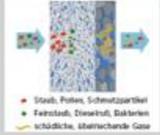
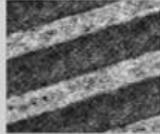
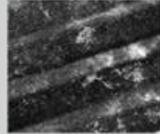
Standard cabin air filters consist of three mutually adapted fiber layers with different fiber thicknesses. The electrostatically-charged microfibers of the middle layer collect extremely small particles which can be respirated and filters them out of the air. These filters operate reliably at temperatures of -40 to +85°C.



Active charcoal cabin air filters are built essentially the same as standard cabin air filters, but they have an additional active charcoal layer that absorbs odors and harmful gases. This active charcoal layer consists of a natural material: coconut shells that are burned and ground under the exclusion of air. In steam heated seat up to 800°C, a foam structure with an enormous surface is generated. 1 gram of active charcoal has an inner surface of about 1000 m². Stated otherwise, 1 teaspoon of active charcoal has the same surface as a football field.

Quality is key

Cabin air filters come in different levels of quality and prices. Why is it important to use high quality cabin air filters? Below, we compare Bosch filters with lower quality filters:

<p>Bosch-Qualitäts-Innenraumfilter Filtermedium</p> <p>Reine Luft durch mehrere aufeinander abgestimmte Filterschichten</p>  <ul style="list-style-type: none"> Staub, Pollen, Schmutzpartikel Reststaub, Dieselruß, Bakterien schädliche, überlebende Gase <p>Zuverlässige Filtrationsleistung durch hochwertige Fasern</p>  <p>Stabilität und größere Filteroberfläche durch speziell geprägtes Filtermedium</p> 	<p>Billig-Innenraumfilter Filtermedium</p> <p>Schlecht aufeinander abgestimmte und zu dünne Filterschichten</p>  <ul style="list-style-type: none"> Staub, Pollen, Schmutzpartikel Fahrstaub, Dieselruß, Bakterien schädliche, überlebende Gase <p>Minderwertige und zu wenige Fasern</p>  <p>Minderwertiges Filtermedium ohne Prägung</p> 	<p>Folgen</p> <ul style="list-style-type: none"> ▶ Partikel, Pollen und Feinstaub gelangen in den Fahrzeuginnenraum ▶ Schlechte Filtrationsleistung ▶ Geringere Lebensdauer
<p>Bosch-Qualitäts-Innenraumfilter Aktivkohle</p> <p>Zuverlässige Absorption von schädlichen Gasen und Gerüchen durch</p> <ul style="list-style-type: none"> ▶ hochwertige Aktivkohle ▶ ausreichende Menge ▶ feste Verbindung mit dem Trägervlies 	<p>Billig-Innenraumfilter Aktivkohle</p> <p>Verwendung von</p> <ul style="list-style-type: none"> ▶ minderwertiger Aktivkohle ▶ in zu geringer Menge ▶ in ungleichmäßiger Verteilung 	<p>Folgen</p> <ul style="list-style-type: none"> ▶ Gesundheitsschädliche Gase und Gerüche gelangen in den Fahrzeuginnenraum
<p>Bosch-Qualitäts-Innenraumfilter Stabilität</p> <p>stabile Faltengeometrie auch bei Feuchtigkeit</p> 	<p>Billig-Innenraumfilter Stabilität</p> <p>Instabile Faltengeometrie</p> 	<p>Folgen</p> <ul style="list-style-type: none"> ▶ Unzuverlässige Filtrationsleistung
<p>Bosch-Qualitäts-Innenraumfilter Passform</p> <p>Exakt auf den Bauraum abgestimmte Passform; dabei hohe Flexibilität selbst für schwierige Einbausituationen</p> 	<p>Billig-Innenraumfilter Passform</p> <p>Ungenügende Passform, schlechte Verarbeitung</p> 	<p>Folgen</p> <ul style="list-style-type: none"> ▶ Bypass von ungefilterter Luft, Schmutzanlagerungen an der Klimaanlage
<p>Bosch-Qualitäts-Innenraumfilter Filterwechsel</p> <p>Problemloser Filterwechsel durch praxiserprobte Einbauanleitung</p> 	<p>Billig-Innenraumfilter Filterwechsel</p> <p>Fehlende Einbauanleitung</p> 	<p>Folgen</p> <ul style="list-style-type: none"> ▶ Zeitverlust beim Filterwechsel