

## Air Cleaner Filters - Purify Your Air

Air cleaner filters are used to purify the air. This is a common piece of equipment used in cars and small rooms where there is a need of recycling the present air. Most commonly air cleaner filters are devices that remove solid particles from the air like dust pollen mould and also harmful microbes like bacteria and keep the air fresh and clean.

Air filter cleaners are very important in gas turbine engines as using clean air will notably increase the efficiency of the engines.

There are many methods which are used by air cleaner filters to remove unwanted particles from the air. The most common method is to use fiber elements in the air cleaner filter to which the dust and other particulate matter will stick to thereby cleaning the air.

There are other complex methods like the static electric charge method. In this method the air cleaner filters use static electricity to attract dust and other particles thereby filtering out clean air. Oil bath filters were used earlier but now due to sophistication in technology these have fallen out of favor.

There have been many significant improvements in air cleaner filter technology due to advancement in fluid sciences. These filters are most important in gas turbines and in air conditions that help to preserve the human health. Paper foam and cotton filters are also most commonly used in the air cleaner filters. These air filters should be cleaned or changed at regular periods of time to ensure the optimum performance of the engine.

Air filters fall under two categories based on their flammability. Class one and class two is used to describe the different classes of flammable air filters. Class one filters do not turn into fuel when in any contact with a flame and so produce small amounts of smoke when burnt. Class two filters become fuel when a flame is introduced and thus produce larger amounts of smoke when being burnt. Considerable amount of research is carried about the flammability of air filters.

The air filters are designed in many shapes and sizes to fit the area of flow of air. The air filters should be regularly changed as they get clogged over time filtering out air. The clogging of air filters not only produces impure air but also reduces the airflow through the passage.

If this happened in an engine the result is a serious drop in engine performance. Air filters can be used for different applications and situations. Their most common usage includes use in gas turbines, internal combustion engines and air conditioners for both rooms and cars.

Paper is one of the most common materials that are used for air cleaner filters in automobiles. This is mainly because they are cost effective as well as efficient. Also these are easily replaceable. Oil wetted foam elements are also known to be used as air filters in automobiles. Foam was a known choice for air cleaners in many applications before the improvement in air cleaning technology.

## About the Author

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