



Jacobi
THE CARBON COMPANY

Activated Carbon for Cabin Air Filters



What is cabin air filtration?

The range of gases to be treated ranges from hydrocarbons from unburnt fuel, to a variety of combustion products including acid gases (sulphur dioxide), oxides of nitrogen (NO_x) and light gases such as aldehydes and ammonia compounds. The challenge for activated carbons is growing on a daily basis

The increased use of the motor vehicle is closely linked to both the levels of urban pollution and also congestion on the roads of our towns and cities. Despite efforts to regulate emissions, there remains a significant level of air pollution that inevitably is cycled through vehicle cabins as part of the ventilation or air conditioning system. This pollution contains a number of substances that are deemed to be hazardous to health and linked to serious respiratory conditions. When simple particulate filtration is no longer adequate, the use of adsorptive filters, utilising activated carbon are employed. This trend is spreading across all trim levels of vehicles, across all ranges and all motor manufacturers. Activated carbon provides pure air inside.

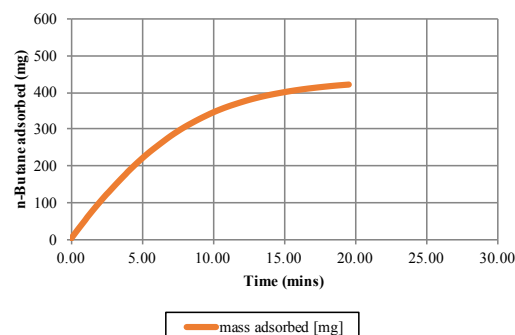
Activated carbon performance

The operational performance of activated carbon in cabin air applications is normally assessed against standard indication gases. These are most commonly n-butane, toluene and sulphur dioxide. Using gravimetric tests the adsorption capacity can be determined and an expected performance when incorporated into a filter media can be predicted.

Typical n-butane test conditions

Concentration:	~80 ppm
Flow Rate:	20 cm/s
Temperature:	23°C ± 1°C
Relative Humidity:	50% ± 3%
Weight per Unit Area:	400 g/m ²

n-Butane Performance
EcoSorb™ MB4





AddSorb™ and EcoSorb™ activated carbons are used by combining granular or powdered forms into a cloth media (usually a non-woven fabric) to provide an effective barrier against the gaseous portion of traffic fumes



Motor manufacturers recognise the potential for sales by being mindful of the health concerns of its customers. The benefits of using adsorptive filters exists across their entire customer base

Product Range

Jacobi Carbons manufacture the AddSorb™ and EcoSorb™ range of activated carbons from sustainable raw materials to exacting quality standards. Key features include a choice of product activity levels, closely controlled particle size distributions (control of flow resistance), complex chemical impregnation (inorganic gas removal) and exceptionally low dust content and material hardness (degradation in processing and material loss as dust). By implementing unique, state-of-the-art manufacturing processes, Jacobi is able to provide a market-leading product for all formats of dry and wet-laid non-woven manufacturing methods.

Product	Description	Standard particle sizes
EcoSorb™ MB4	Coconut based, low magnetic content	20x50, 30x60 mesh
EcoSorb™ MB3	Coconut based, low magnetic content	20x50, 30x60 mesh
EcoSorb™ MB5	Coconut based, medium activity	20x50, 30x60 mesh
EcoSorb™ MB8-Extra	Coconut based, high n-butane capacity	20x50, 30x60 mesh
AddSorb™ AG	Coconut based, acid gas removal ¹	20x50, 30x60 mesh
AddSorb™ AE	Coconut based, acid gas removal ²	20x50, 30x60 mesh
AddSorb™ AMF-S	Coconut based, aldehydes removal	20x50, 30x60 mesh

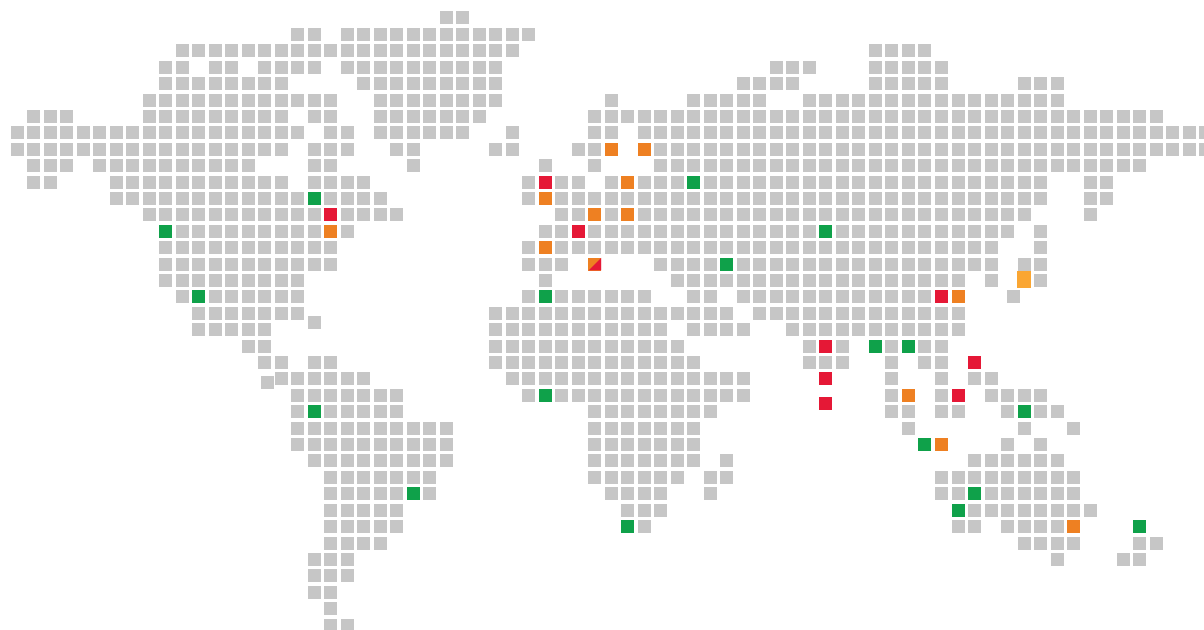
1 FOR USE IN WET LAID PROCESSES WITH LOWER WATER SOLUBILITY IMPREGNATION 2 FOR USE IN DRY LAID PROCESSES WITH MORE EFFICIENT IMPREGNATION

THIS INFORMATION IS INTENDED AS A GUIDE ONLY AND FULL SPECIFICATION OF GRADES SHOULD BE TAKEN IN CONJUNCTION WITH YOUR LOCAL JACOBI CARBONS REPRESENTATIVE



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