

**Jacobi**  
THE CARBON COMPANY

# Activated Carbon for Tobacco Filters



# Tobacco Smoke

Perhaps one of the most contentious 'habits' recognised in modern life is the smoking of tobacco, whether incorporated into cigarettes, pipes or increasingly used in Shisha for recreational purposes. However, the smoking of tobacco persists and in some parts of the world is still increasing in its prevalence. The association between activated carbon and the ability this unique adsorbent has to modify taste by the removal of chemical compounds in tobacco smoke is long-standing, and this ability has seen the more widespread incorporation of the product into cigarette filter tips in recent years. Additional uses in smoking devices, such as pipe filters and smoking booths, has further highlighted the potential uses of activated carbon in this market sector.



## Typical gases in cigarette smoke:

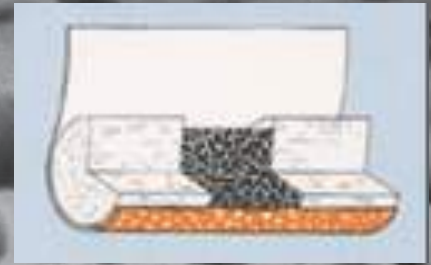
- Benzene
- Formaldehyde
- Acrolein
- Acetaldehyde
- Toluene
- Hydrogen cyanide
- 1-3, Butadiene
- Isoprene
- Acetone
- Butyraldehyde
- Cresol
- Ammonia
- Acrylonitrile

Although more than 90% of tobacco smoke is particulate matter removed by mechanical filtration media, there are more than 5000 individually identified chemical substances present in the remaining 10%. The key substances often cited number 44 in total and are known collectively as Hoffman analytes



Typical Dual Filter using Dalmatian-type filter composite

EcoSorb™ activated carbons are manufactured in modern facilities with close attention to the specification demands of our customers. Both standard and fine granular activated carbons are available for use in whatever filter configuration is required



Typical Dual Filter using cavity filling of granular activated carbon

## Product Range

By implementing unique state of the art manufacturing processes, Jacobi is able to provide a market-leading product for the most popular filters like cavity and dalmatian types. In addition, Jacobi has developed a complete range of granular and powder activated carbon for all other types of filters. In cooperation with its R&D team Jacobi can provide the best support to customers for developing new solutions and for matching with the tobacco market evolution.

Product	Description	Standard particle sizes
EcoSorb™ MB4	Coconut based, low magnetic content	20x70, 30x60, 30x70 mesh
EcoSorb™ MB3	Coconut based, low magnetic content	20x70, 30x60, 30x70 mesh
EcoSorb™ MB4-10H	Coconut based, pre-humidified	20x70, 30x60, 30x70 mesh
EcoSorb™ MB3-10H	Coconut based, pre-humidified	20x70, 30x60, 30x70 mesh
EcoSorb™ CX	Coconut based, low magnetic content	14x30, 16x35 mesh
EcoSorb™ PMC3	Very high activity, powdered grade	90% <325 mesh (45µm)

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

Jacobi operates the most advanced and modern manufacturing plants with capacity for more than 60,000 metric tons per annum of high quality coconut shell based products. 6 plants, located in 5 different countries, no other manufacturer can offer the same degree of security of supply



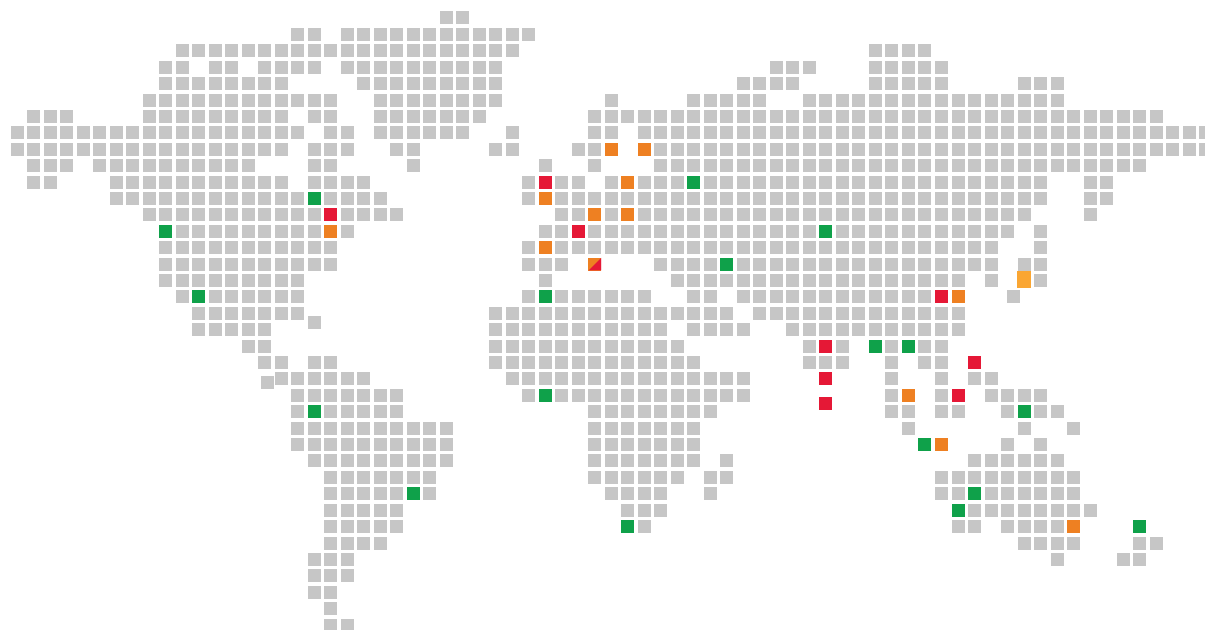
Tobacco leaf or 'rag' being dried and cured prior to processing

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