



ZORFLEX® ACC

100% Activated Woven Carbon Cloth

DESCRIPTION

Activated Carbon Cloth (ACC), originally invented in the 1970's has since been developed by Charcoal Cloth International for use in many filtration, adsorption and separation applications for use in industrial, medical and domestic markets **ZORFLEX® ACC** has an extremely large surface area (1000-2000m²/g), being predominately micro-porous. This, combined with the strong electrostatic forces developed within the cloth, enables the cloth to be highly efficient at adsorbing vapours and solvents.

Available in woven and knitted formats, the cloth is also offered in different activities, weights and thickness. The cloth can also be impregnated with chemical treatments to make it more sensitive to adsorption of particular inorganic molecules.

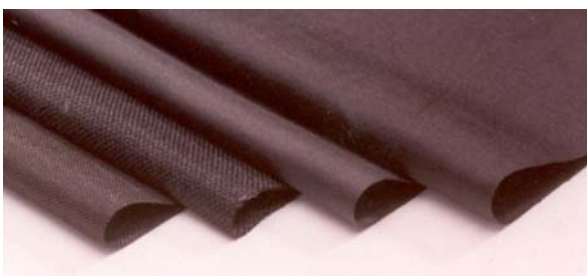
FEATURES

ZORFLEX® ACC's have several properties, which explain their superior performance in a wide range of applications:

- As the material is **100% activated carbon**, the cloth's performance will exceed that of an equivalent weight of a conventional carbon loaded paper, non-woven or foam, due to their lower carbon content.
- The materials flexible textile form offers superior handling in filter and product manufacture and makes lamination or bonding to other materials possible.
- This form of activated carbon cloth exhibits more **rapid reaction and adsorption kinetics** compared with granular activated carbon. Therefore, **ZORFLEX® ACC** filters will be more effective when short contact time, high airflow speeds or small bed depths are required.
- A greater amount of vapour will be adsorbed by **ZORFLEX® ACC** compared with the same weight of granular activated carbon. Therefore **ZORFLEX® ACC** filters will be more effective in high vapour concentrations or where smaller bed depths are required.
- **ZORFLEX® ACC's** high efficiency and large capacity for adsorption are less adversely affected by pre-adsorbed moisture than granular activated carbon. Therefore **ZORFLEX® ACC** filters are more suitable for use in humid environments where their effectiveness will be maintained.

APPLICATIONS

- Oil mist filters in compressed air
- Gas sensor protectors and filters
- Protection of artefacts from tarnish and degradation
- Water purification
- Air purification,
- Escape masks
- Low weight reduced resistance respirator canisters

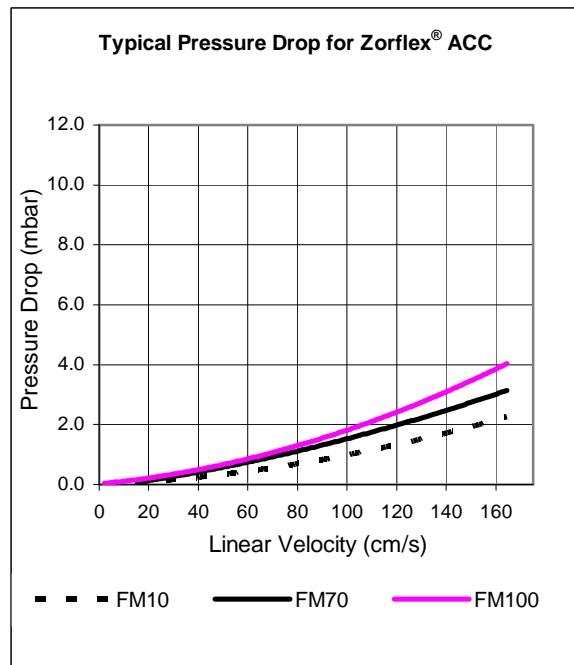


PROPERTIES

SPECIFICATIONS	
Carbon tetrachloride activity, min., %ww	55 - 70
Construction FM10	1/1 plain weave
Construction FM70	Compound weave
Construction FM100	1/1 double weave

TYPICAL PROPERTIES	FM10	FM70	FM100
Surface Density, g/m ²	120	160	240
Tensile strength, Warp (N)	15	15	25
Ethyl Acetate uptake Min. (% w/w)	30	30	30
Max. (% w/w)	40	40	40
Air permeability cm ³ /cm ² /sec at 10mm w.g.	100	70	60
Thickness (mm)	0.5	0.6	1,0

DESIGN INFORMATION



PACKAGING

- Polythene & bubble wrap for our log rolls of cloth (each roll in approximately 1m wide x 100 – 200m long).
- Customised packaging can be offered upon request.



Safety Message

Wet activated carbon preferentially removes oxygen from air. In closed or partially closed containers and vessels, oxygen depletion may reach hazardous levels. If workers are to enter a vessel containing carbon, appropriate sampling and work procedures for potentially low oxygen spaces should be followed, including all applicable Federal and State requirements.

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Making Water and Air Safer and Cleaner

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