



Activated Carbon Cloth Woven Zorflex1

Description:

Activated Carbon Cloth (ACC, originally invented in the 1970's has since been developed by Chemviron Carbon Cloth Division for use in many filtration , adsorption, and separation applications for use in industrial, medical and domestic markets.

ZORFLEX® ACC has extremely large surface area (1000-2000 m²/g) Being predominantly microporous. 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 particulate 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 cloths 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 manufacturer and makes the 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 shallow bed depths are required.

ZORFLEX® ACC 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 artifacts from tarnish and degradation
- Water and air purification
- Escape masks
- Low weight reduced resistance respirator canisters

	Construction	
	Construction FM10	1/1 plain weave
	Construction FM70	Compound weave
	Construction FM100	1/1 double weave

Normal Properties	Unit	FM10	FM70	FM100
Surface Density	g/m ²	120	160	220
Carbon tetrachloride activity	%ww	55-70	55-70	55-70
Air permeability	cm ³ /cm ² /sec at 10mm	100	70	60
Thickness	mm	0.5	0.6	1.0

Please note figures above represent nominal value. Specifications can change without prior notice.