



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 wright of granular activated carbon. Therefore ZORFLEX® ACC filters will be more effective in high vapour concentrations or where salled 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

Table with 2 columns: Construction, Weave type. Rows include Construction FM10 (1/1 plain weave), Construction FM70 (Compound weave), and Construction FM100 (1/1 double weave).

Table with 5 columns: Normal Properties, Unit, FM10, FM70, FM100. Rows include Surface Density, Carbon tetrachloride activity, Air permeability, and Thickness.

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