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What Is ACF?

ACF is a flexible form of activated carbon. The activated carbon fabric is mechanically weak but highly porous in nature. Due to this, it possesses unique characteristics as compared to conventional activated carbon, which is commonly used in granular, palletized, powdered and molded form. Due to a thin fibrous shape in activated carbon fabric, a fast intra particle adsorption kinetics takes place in gas and liquid phase adsorption.



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Activated Carbon Fabric (ACF)

A new concept & used for the first time in India. ACF is a new and fibrous adsorbent which has been obtained from an appropriate fibrous precursor by an adequate carbonization and activation process.



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Features of ACF

- 1) It is of minimum 90% pure form of activated carbon.
- 2) It is soft and easy to handle.
- 3) It has a BET surface area (SBET) of the range from 1,000 to 2,500 m² g⁻¹ with a high degree of adsorption and desorption characteristics.
- 4) Effective adsorption is several hundred times higher than that of GAC, PAC or palletized activated carbon.



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Features of ACF

- 1) Pure form of Activated Carbon.
- 2) Higher surface area and higher adsorption capacity.
- 3) Fast adsorption / desorption capacity.
- 4) Pore size distribution in the range of 20 Ao
- 5) Having controlled pore size and volume.
- 6) Lower pressure drop.



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Regenerating ACF

ACF is made up of filament yarn, due to which ACF is electrically conductive and hence it can be regenerated by passing a low voltage current across the ACF surface or by heating ACF at 100 oc for 15 to 30 minutes. The distribution of pore size is in narrow range < 10 nm.



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Usage of ACF

ACF is used in :

- 1) Air-conditioner filters.
- 2) Air purifying filters.
- 3) Clean rooms.
- 4) All other types of pollution control filters.
- 5) Refrigerator deodouriser – to arrest odours in refrigerators.



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Applications

Activated Carbon Fabric is a new generation material with potential for wide range of novel applications.



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