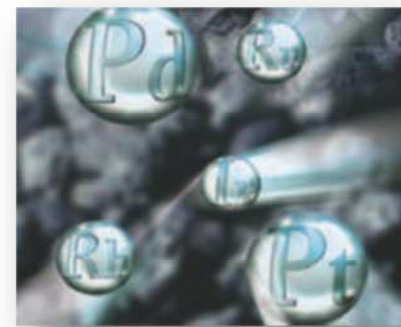




AC Carb PD

ACTIVATED CARBON CATALYST FOR HYDROGENATION

ACTIVATED CARBON IN PTA PROCESS



PTA is the acronym for Purified Terephthalic Acid and is used in the production of fibres for clothing, audio/videotapes, varnishes and glues.

The function of activated carbon in the production process for purified terephthalic acid is achieved by means of catalytic conversion, with the noble metal palladium(Pd) being used as the catalyst.

In order to achieve as large a surface area of palladium as possible, the palladium is dispersed on the activated carbon surface. In this way the palladium is used optimally and the reaction accelerated. The activated carbon is therefore used as a catalyst support.

Advantages of Activated Carbon as Catalyst

- ✓ It is Inert
- ✓ Relatively Cheap
- ✓ Enormous Internal Surface to distribute the catalyst



A U.K. company, representing



PROPERTIES OF AC Carb PD

Activated carbon properties are extremely important for the process. Active Char Products Pvt. Ltd. has developed a number of new carbon types especially for this application.

The most important properties are,

- **Hardness**
If the carbon is too soft, it can become eroded. The resulting dust can interfere with the further process and palladium is also lost that can no longer be reclaimed.
- **Porosity**
There must be an optimum distribution of the various pore sizes. If pore distribution is incorrect, the palladium can become inaccessible for the reaction to take place.
- **Purity**
Because of the high temperatures and acid conditions, the contamination present in the activated carbon is leached out. Sulphur, for example, can become deposited on the palladium, making it inactive.

RECOMMENDED Active Char Products Pvt.Ltd. CARBON CATALYSTS

AC Carb PD - A

Application: Hydrogenation

AC Carb PD - B

Application: Hydrogenation, CO Adsorption etc.



Packaging

The catalyst will be contained in PE sealed bags into palletized plastic/metal drums. (60 liters to 200 liters per drums)



For more information on the product, please contact our application specialists at the address below

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