



IPEC sorb 200

DESCRIPTION

The activated carbon IPECSORB 200 is a granular carbon made by physical activation of a selected grades of bituminous coal. The raw material selection and the activation process results in a product with a stable and durable quality which makes the activated carbon able to withstand abrasion during repeated backwashing and material handling.

The excellent pore size distribution makes the adsorption of a wide range of low to high non-polar molecular weight organic contaminants possible, but also decomposes chlorine and ozone effectively.

The quality of IPECSORB 200 is field proven for drinking and process water in the food industry because of the high surface area in combination with optimal pore size distribution.

APPLICATIONS

IPECSORB 200 is tested and used for the purification of

- Ground water with traces of VOC
- Process water before exchange resins, ultra-filtration or reverse osmosis
- Dechlorination with the possibility to sterilize the carbon by steam in situ
- Industrial water

Design recommendations

- IPEC recommends downflow filtration for most of the applications to ensure that any suspended solids are collected in the top layer of the carbon bed. In case of prefiltering, upflow can be considered.
- After filling the filter with activated carbon the bed should be backwashed during 2-6 hours to ensure a proper distribution of the activated carbon granules (classified filterbed).

ADVANTAGES

- Can be thermally reactivated (not applicable for carbon exposed to chlorine or ozone).
- Has a high micropore structure which results in a high capacity for chlorinated organic components.
- Is a high density activated carbon resulting in a high volume based adsorption capacity. In case of carbon replacement, considering the dense IPECSORB 200 can increase the carbon bed-life because of the higher tonnage that can be loaded in the filtervessel.
- Can be disinfected by steam and is thus suitable for food applications.

SPECIFICATIONS

Bulk Density (vibrated)	± 0,5 g/cc
Iodine number	> 900 mg/g
Methylene Blue number	> 190
Abrasion	> 90%
Particle size:	12 x 40 US mesh
+ 12	< 3 %
- 40	< 3 %
Water content	< 3 % as packed
Ash content	< 15%

These results are the results of international standards and test methods (mainly ASTM). The typical properties are informative only – not binding.

SAFETY PROCEDURE

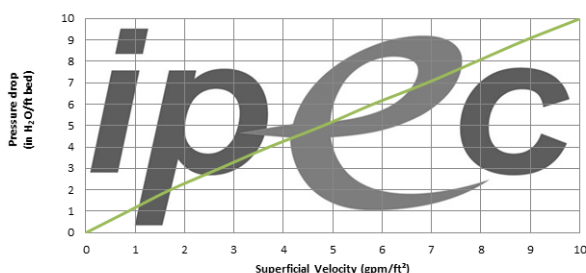
- IPECSORB 200 is not toxic
- Flame point is in excess of 400°C (non-hazardous cargo, non-IMO classified)
- Wet activated carbon will absorb oxygen and can reach hazardous low levels in closed or partially closed containers and vessels
- Store in covered, cool, dry and ventilated storage
- Do not use CO₂ to extinguish burning coal
- Check MSDS-fiches for more information about the safety procedure

PACKAGING

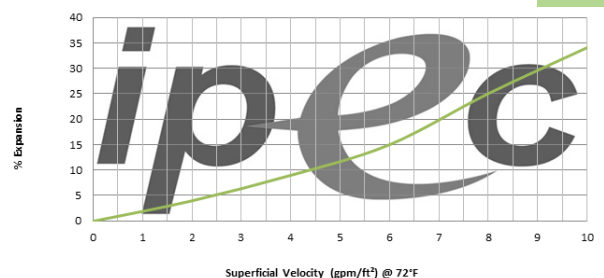
IPECSORB 200 is available in 25 kg multiwall paperbags and 500 kg bigbags. The activated carbon is available in our warehouse in Abu Dhabi.

TECHNICAL DATA

Pressure drop



Bed Expansion During Backwash



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