

CL CARB 9

Impregnated activated carbon



Applications

The chemical filtering material of CL CARB 9 series is based on high-quality, dustfree activated carbon impregnated with alkaline chemicals. State-of-the-art impregnating technology ensures an extremely large area and uniform distribution. Applications include wood processing industry, sewage treatment plants, petrochemical industry, composting plants and process industry.

Properties

In unimpregnated form the adsorption force of activated carbon absorbs all kinds of organic fumes and odours.

The use of special impregnating chemicals renders activated carbon capable of absorbing all types of harmful and corrosive gases.

Depending on the conditions, extremely large amounts of hydrogen sulphide, sulphur oxide and other acidic gases can be adsorbed into the carbon.

The impregnating agent acts as a catalyst, converting

hydrogen sulphide and sulphur oxide compounds as well as other acidic gases into non-volatile, inorganic compounds. This eliminates the possibility of desorption.

Contrary to other impregnated activated carbons, the water content of CL CARB 9 materials is extremely low - less than 5 %, in practice usually only 2-3 %. The large surface crystallites of dried impregnating agents gain access into the air flows, whereby the moisture condensed in the porous structure cannot prevent their action.

Disposal

After use, impregnated activated carbon can be disposed of by burning it in an industrial process into ashes, whereby sulphur gas can be safely separated from the emissions. The used material can also be delivered to a landfill as such.

Quality and environment

Operations are guided by the ISO 9001:2001 quality certificate and the ISO 14001 environmental certificate.

Technical data

size

1.5 mm, 3 mm, 4 mm, 9 mm pellet

raw material

activated carbon

area

typically 1100 m²/g

ctc capacity

min 60 % w/w

grain size 1

min 95 % w/w < 4.75 mm

grain size 2

min 80 % w/w < 3.35 mm

hardness

min 95 % w/w

bulk density

min 0.56 g/cm³

moisture content

max 5 % w/w

impregnation

Alkali metal halide and hydroxide

package size

25 kg bag

application

filtering material for acidic gases