

Adsorbi CR



Description

Adsorbi CR is a wood-based adsorbing material, designed to capture a variety of volatile gaseous pollutants, specifically VOCs. The high capacity of the adsorbent enables a long product lifetime with irreversible capture of pollutants.

Benefits

High performance: Irreversible capture of VOCs.

Extended product lifespan: High adsorption capacity enables a long lifetime

Dust-free: Easy to handle and will not stain or colour

Moisture resistance: Maintains high performance in high RH

Colour-Change function: Enables easy monitoring of adsorbent saturation and replacement.

Technical data

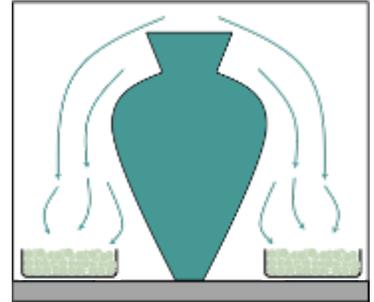
Parameters	Value	Unit
Product Form	Granules	
Colour	White/yellowish (before use)	
Bulk density	0.4	g/ml
Granule size	0.8 – 2.8, 3 – 4	mm
Moisture uptake RH 55%	0.06	$\frac{g_{H_2O}}{g_{Adsorbi}}$
Working condition	<110	°C

Target pollutants

- Aldehydes (e.g., formaldehyde)
- Organic acids (e.g., acetic acid)
- Alcohols (e.g., isopropanol)
- Ketones (e.g., acetone)
- Aromatic hydrocarbons (e.g., toluene)
- NO_x
- NH₃
- H₂S

Instructions

- 1. Safety precautions:** When handling Adsorbi material, use plastic gloves. This is particularly important when dealing with used material which might contain high concentrations of toxic pollutants.
- 2. Handling:** Open the package containing the adsorbent and carefully pour the granules into a container or integrate into a holder of choice. Create a uniform layer within the container, maintaining a thickness of roughly 2-3 cm. Ensure that the container has an open top. The granules can also be filled in non-woven bags for easy handling.
- 3. Dosage:** It is recommended to use approximately 2 dl per cubic meter (50 g/m³) which will last at least 18 months, However, each environment is different and pollutant concentration varies largely with objects, size of the environment, and temperature.
- 4. Placement:** Position the container loaded with Adsorbi CR within the environment in a position where the granules are exposed to the air. Do not let the adsorbent come into contact directly with sensitive objects.
- 5. Replacement:** Monitor the colour-change of the adsorbing material regularly. When the adsorbent becomes yellowish/brown, the adsorption process is working. If the colour remains unchanged for a long time, it's time to replace the adsorbent.
- 6. Disposal:** Used Adsorbi CR material should be transferred into an airtight container. Properly dispose of this container as hazardous waste to comply with local environmental regulations.



Colour-change function

The adsorbent gradually changes colour as it captures and binds pollutants. When the material is brown, it's at the latest time to replace the adsorbent.



Unused adsorbent



Used adsorbent

Storage of unopened and unused adsorbent

Store Adsorbi in a cool, dark, and dry environment to maintain its effectiveness and long shelf-life. Keep the material securely packed in the packaging to prevent exposure to contaminants. This storage approach ensures that Adsorbi remains in optimal condition for extended use.

Precautions

Handle the adsorbent using gloves, both to keep the adsorbents clean and to protect the skin. Used adsorbent are likely to contain high concentrations of harmful pollutants. Do not put the adsorbent in direct contact with sensitive objects as the material accumulates harmful molecules which might affect the objects. Do not keep near children or animals, and do not eat the adsorbent material. By adhering to these precautions, you can ensure safe use and prevent inadvertent pollutant hazards.

