

Activated
carbon
pellet

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STIX

STIX 4 mm is a high quality impregnated coal-based pellet designed for the removal of acid gases and odour compounds from air. It will also function to remove hydrogen sulfide from biogas streams and from carbon dioxide in the presence of greater than 1.8 stoichiometric ratio of oxygen. The base carbon precursors are impregnated with an alkaline solution to give a product with enhanced adsorption characteristics for odorous organics and acid gases including hydrogen sulfide, mercaptans (thiols), sulfur dioxide, chlorine, hydrogen chloride etc.



Features

- Carefully formulated chemical composition and pore structure for enhanced uptake and rapid adsorption characteristics.
- Use of a 4 mm pellet allows for lower pressure drop and decreased energy requirements compared with traditional granular materials.
- Selected additives and controlled manufacturing process to raise ignition temperature and reduce risk of bed exotherm compared with standard alkaline impregnated products.
- Effective operation under low or high relative humidity applications.
- High hardness ensures excellent durability and low dusting.
- Excellent filling characteristics.

Technical specification

Moisture content, as packed, max.,%	10-20
Carbon tetrachloride activity (base), min., wt%	50
Apparent density (max) kg/m ³	760
Impregnant, min., wt%	7
Mesh size, US sieve series, wt% >6 (3.35 mm) min.	95



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Typical properties

Bed density*, kg/m ³	670
Hardness number, %	95
Pellet diameter, mm	4
Pellet length, mm	9
Ignition temperature**, min. °C, ASTM D3466	230
Dust index, max.	5

* Bed density is used for the adsorber sizing

** Under conditions of ASTM D3466. Ignition temperature will vary in practice according to specific conditions for which the carbon is utilised.

Applications

- Sewage treatment – odor control
- Biogas purification
- Chemical processing
- Laboratory fume hoods
- Carbon dioxide purification
- Food industry



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