



TECHNICAL DATASHEET

GS61

Potassium iodide (KI) Impregnated Activated Carbon for Hydrogen Sulfide (H_2S) and Mercaptans removal

Various types of activated carbon can be used for hydrogen sulfide and mercaptans removal from gas streams.

Determining the optimal process and suitable type of activated carbon is a complex task, influenced by the gas composition and physical conditions like temperature and humidity.

GS61 activated carbon is a special potassium iodide (KI) Impregnated Activated Carbon which causes a catalytic reaction with Oxygen to form elemental Sulfur.

The catalytic reaction of hydrogen Sulfide/ Mercaptans to elemental Sulfur occurs inside the activated carbon's pores which enables a high reaction rate and high loading rate.

The reaction and efficiency depends on the relative humidity of the gas stream. In cases of high humidity (70% and higher) a drying or heating is required.

SPECIFICATION AND TYPICAL PROPERTIES*

Base material	Coal
CTC % before impregnation Min	60%
Bulk density kg/m ³ (before Impregnation)	460kg/m ³
Bulk density kg/m ³ (after Impregnation)	550kg/m ³
Hardness % Min	97%
Ash Content % Max (before Impregnation)	12%
Impregnant wt%	2%
Diameter	4 mm
Iodine value Min (before impregnation)	950 mg/g

*Specifications and typical properties are listed for informational purposes only and not to be used as purchase specifications.

Typical Applications

- Cleaning odor from WWTP waste gas and ventilation
- Cleaning odor from waste treatment facilities and waste gas
- Cleaning odor from H_2S and Mercaptans in waste gas
- Other industrial applications

Features and Benefits

- High adsorption ability and loading rate for H_2S and Mercaptans
- High percentage of KI impregnation – 2% (2.5%, 5% also available)
- High removal efficiency for waste gas containing Air/Oxygen
- Exceptionally high hardness and crush strength

Standard Packaging

- 25kg bag
- 500kg bulk bag
- 550kg bulk bag
- Other packing considered on request

Disposal

At the end of its useful life, all carbon media should be disposed of in a responsible manner and in accordance with all sites, local and statutory regulations relevant to the point of use.

