Impregnated Activated Carbon
Technical Data Sheet (TDS)

1. Product Description

Impregnated Activated Carbon is a specially treated carbon material produced from high-quality activated carbon impregnated with chemical compounds such as iodine, potassium carbonate, silver, or copper to enhance its reactivity. This advanced carbon type is designed for the adsorption and catalytic decomposition of specific gaseous or liquid contaminants including acid gases, ammonia, sulfur compounds, and mercury vapors. It is widely used for air filtration, defense gas masks, toxic gas scrubbing, and industrial exhaust purification systems.

2. Typical Physical & Chemical Properties

Item	Unit	Typical Value
Iodine Number	mg/g	800–1000
Specific Surface Area (BET)	m^2/g	900–1100
Impregnant Type	–	KI, K_2CO_3, NaOH, Cu, Ag, or customized
Moisture	%	≤10
Ash	%	≤8
Hardness	%	≥90
Bulk Density	g/cm^3	0.45–0.55
Particle Size	mm	1.5–4.0 (customizable)
Appearance	–	Black granules or pellets

3. Applications

- Gas phase filtration and air purification systems
- Removal of acid gases (HCl, SO_2, NO_x)
- Ammonia and hydrogen sulfide control
- Mercury vapor adsorption and odor elimination
- Defense and protective mask filter layers
- Industrial waste gas scrubbing units

4. Packaging & Storage

Standard packaging available in 25 kg polyethylene-lined woven bags, 500 kg or 1000 kg jumbo bags, or as per customer request. Store in a cool, dry, and well-ventilated environment away from moisture, heat sources, acids, and oxidizing agents. Handle carefully to prevent dust generation and maintain chemical impregnant stability.

5. Quality & Compliance

Manufactured under ISO 9001-certified quality control and tested according to ASTM and AWWA standards. Each batch undergoes impregnation uniformity, activity, and physical strength testing.

6. Remark

The technical data presented are typical values intended as general reference. Product selection should be based on specific gas composition, humidity, and operating conditions. Henan CarbonFresh Activated Carbon Co., Ltd. reserves the right to modify product specificati ons without prior notice.

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