Catalytic Activated Carbon
Technical Data Sheet (TDS)

1. Product Description

Catalytic Activated Carbon is a specially treated activated carbon with surface functional groups that enhance oxidation and decomposition of various contaminants. It effectively removes residual chlorine, chloramine, hydrogen sulfide, and micro-pollutants from water and gas streams through a combination of adsorption and catalytic reaction. This carbon is widely used in water treatment, air purification, and environmental protection applications.

2. Typical Physical & Chemical Properties

Parameter	Unit	Typical Value
Form	-	Granular Activated Carbon (GAC)
Particle Size	mm	0.6 – 2.36 (8 × 30 Mesh)
Bulk Density	g/ml	0.48 – 0.55
Iodine Number	mg/g	≥ 1100
Surface Area (BET)	m²/g	≥ 950
Moisture	%	≤ 5.0
Hardness	%	≥ 90
pH of Water Extract	-	6.0 – 9.0
Ash Content	%	≤ 10

3. Applications

- Removal of chloramine and hydrogen sulfide from municipal and groundwater systems.
- Advanced treatment for drinking water and wastewater plants.
- Air purification and deodorization of industrial gas streams.
- Protection of catalytic process equipment by removing trace impurities.
- Applicable to vapor phase and liquid phase adsorption systems.

4. Operating Conditions

- Service Temperature Range: 5 – 60 °C
- Recommended Bed Depth: ≥ 1.0 m
- Typical EBCT (Empty Bed Contact Time): 2 – 5 min
- Regeneration: Backwash followed by thermal reactivation or replacement as required.

5. Packaging & Storage

Standard packages include 25 kg moisture-proof bags and 500 kg / 1000 kg jumbo bags.
Each package is nitrogen-purged and sealed to maintain activity.
Store in a cool, dry place below 40 °C and away from volatile contaminants.
Avoid direct exposure to sunlight and open flames.

6. Quality & Compliance

The product is manufactured under the ISO 9001 quality management system and tested in accordance with GB/T and AWWA standards.
It meets the requirements of drinking water and environmental protection standards.

Additionally, each batch is analyzed for iodine number, surface area, ash content, hardness and moisture to ensure consistent performance.

7. Remark

The information above represents typical values for reference only.

Henan CarbonFresh Activated Carbon Co., Ltd. reserves the right to revise specifications without prior notice.

Web:www.carbonfreshcn.com|Email:info@carbonfreshcn.com|Tel:+86155 3801 7198|
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