

UNITED INTERNATIONAL
HYDRO ENG. TECH



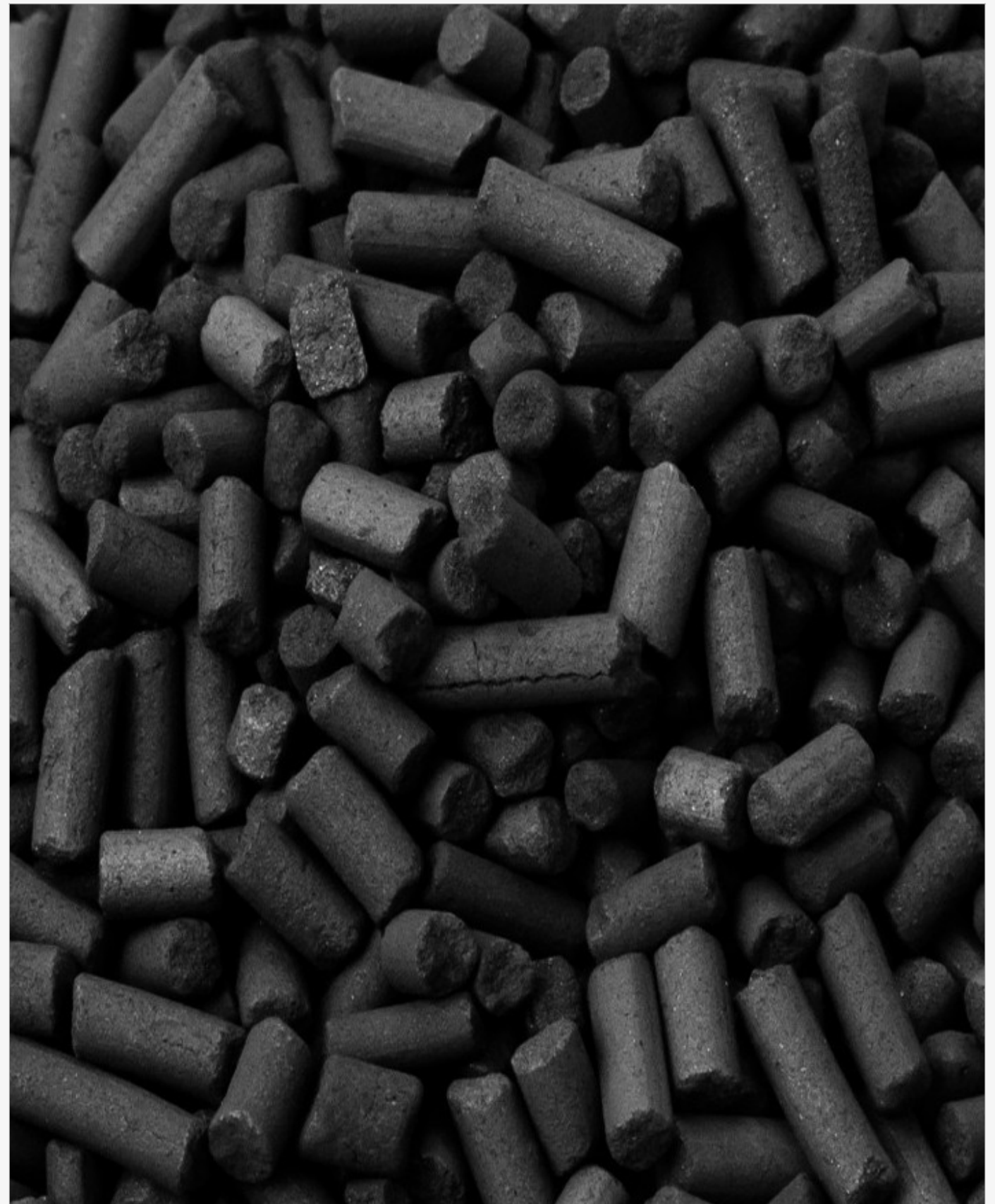
ACTIVATED CARBON

United International Hydro Engineering Technologies (UIHET) provides total environmental and industrial solutions for better tomorrows. We owe these to future generations because we inherited a good environment from our past generations. **UIHET** with their technical and business partners and alliance strive to introduce proven and new technologies in the industrial and environmental fields, for the future of the next generations. **UIHET** believes that new challenges cannot be solved with old techniques. This philosophy necessitate **UIHET** to be on the edge of the technology and invest in the continuous research and developments as the main success factor for our company. **UIHET** advanced line of industrial odor control systems and equipment includes a wide range of modern technologies to meet your process requirements. With precision engineering to meet rigid standards, **UIHET** provides high quality, long life span, and reliable equipment. **UIHET** odor control systems and equipment is supported by a reliable engineering staff with extensive experience. This experience aids our customers in creating solutions for today's complex problems and challenges.

TECHNICAL DETAILS

Activated carbons are known as one of the most powerful absorbents available in the world. Because of the exceptional properties hold by the activated carbon they have been widely used in various firms and fields such as wastewater treatment, medical industries, chemical industries, etc. as it helps in removing odors from the water. All our activated carbon systems are superior quality and purely extracted and can remove various pollutants and impurities from water, food, air as well as from the Pharmaceutical products. Globally we are recognized as producing high grade activated carbon that has been used in a variety of fields including environment, health and industrial application.

Activated Carbon is a kind of porous carbon material for water and air treatment with black and extruded granular, selecting high quality coal as raw material, is refined by advanced technology and equipment. The product has high developed hole structure and prodigious surface area and it provides maximum volume activity. So it has good adsorption capacity. The high strength and abrasion resistance of the product lead to easy to regeneration. Thus, it has a long working life and cheap cost. Due to their high surface area, pore structure, and high degree of surface reactivity, activated carbon can be used to purify, dechlorinate, deodorize and decolorize both liquid and vapor applications.



ACTIVATED CARBON WORK PRINCIPLE



Activated carbon (also called activated charcoal, activated coal or active carbon) is a very useful adsorbent. There are several methods of odor control that can be deployed to treat the airstream. Carbon adsorption uses an activated carbon pellet media. Odor control is achieved when the contaminants adhere to the surface area of the carbon media, while clean air pass through and is released to the atmosphere. Adsorption is a process that uses activated carbon to adsorb odorous compound into activated carbon material. This is accomplished by passing the odorous air across a bed of activated carbon, allowing the adsorptive process to occur and releasing the clean air to atmosphere.

ACTIVATED CARBON TECHNICAL SPECIFICATION

Item No.	Description	Specification or Value
1	Carbon Tetrachloride Activity (CTC)	min 60%
2	Moisture Content	max 5%
3	Apparent density	520±20g/l
4	pH	8-10
5	Hardness	min 95%
6	Ash	max 14%
7	Available Particle Sizes	1mm, 1.5mm, 2mm, 3mm, 4mm, 5mm
8	Packing	25kg bags, 500kg bags, or as per customer's requirement



APPLICATIONS

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| <ul style="list-style-type: none">• Wastewater Purification and treatment• Petroleum Industries• Automotive Applications• Industrial Gas Purification• Food Grade Products• Ammonia Industries | <ul style="list-style-type: none">• Fertilizers Industries• Animal feeds• Food & Beverage• Precious Metal Recovery Mainly For Gold• Cosmetology Industries• Sludge Dewatering |
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FEATURES & BENEFITS

- Excellent odor removal capabilities across a wide range of contaminants
- High developed hole structure and prodigious surface area and it provides maximum volume activity.
- Relatively low initial capital cost when compared to chemical scrubbers or biological systems.
- High adsorption capacities.
- High strength and abrasion resistance of the product lead to easy to regeneration.
- Low energy consumption, low investment, and environmental protection.
- Simplicity of operation.
- Passive technology. Can be dormant for extended periods of time but work when needed.
- Flexible operation, the quality of final product won't be much changed when the capacity changes.

