



TOPAZ
WATER TECHNOLOGY



Committed to **Quality**
&
Committed to **you**

About Us

Topaz Water Technology is a leading provider of high-quality activated carbon products and services. Our company was founded with the goal of becoming the go-to source for all things related to activated carbon. Our team of experts has years of experience in the industry and is dedicated to providing customers with the best products and services available.

We offer a wide range of activated carbon products, including granular activated carbon, powdered activated carbon, and extruded activated carbon. Our products are used in a variety of applications, such as water treatment, decaffeination, air purification, gas treatment, petrochemical industry, pharmaceutical industry, textile printing and dyeing, sugar decolourization, gold refining, pharmaceutical, petrochemical and other industries and to name a few. We are committed to providing our customers with the highest quality products and services, and our products are rigorously tested to ensure their performance and safety.

In addition to our products, we offer expert technical support and consultation services to help our customers choose the right activated carbon products for their specific needs. Our knowledgeable staff is always available to answer questions and provide guidance, and we are dedicated to ensuring our customers' complete satisfaction.

At Topaz Water Technology, we believe that our success is measured by the satisfaction of our customers. We strive to create long-lasting relationships with our customers by providing them with exceptional products and services, and we are committed to helping them achieve their goals.

We are dedicated to sustainability and are committed to reducing our carbon footprint. Our products are manufactured using eco-friendly processes and materials, and we continuously work to improve our processes and reduce our impact on the environment.

Thank you for considering Topaz Water Technology for your activated carbon needs. We look forward to serving you and helping you achieve your goals.

TYPE OF **ACTIVATED CARBON**



**COCONUT SHELL
ACTIVATED CARBON**



ANTHRACITE



**COAL BASED
ACTIVATED CARBON**



**WOOD BASED
ACTIVATED CARBON**

COCONUT SHELL ACTIVATED CARBON



SPECIFICATION :

ITEM	Coconut Shell Activated Carbon Index			
SIZE	8 X 16 /	12 X 30 /	12 X 40 /	16 X 30
IODINE ABSORPTION (mg/g)	≥ 400	≥ 600	≥ 800	≥ 1000
METHYLENE BLUE mg/g	≥ 180	≥ 200	≥ 210	≥ 230
HARDNESS(%)	≥ 94	≥ 94	≥ 94	≥ 96
MOISTURE(%)	4-6	4-6	4-6	4-5
ASH(%)	5-8	5-8	4-6	4-6
LOADING DENSITY (g/l)	500-550	450-480	420-460	420-460

Coconut shell activated carbon has a very high hardness and is more abrasion resistant than any other type. It is a natural, environmentally friendly product with a very small carbon footprint since it is derived from coconut shells. As most of its pore structure consists of micropores (more than 80%), coconut shell carbon can efficiently absorb impurities with micropore molecular structures, such as those present in drinking water. In addition, because of its high abrasion resistance and exceptional chemical and physical characteristics, only coconut shell activated carbon can support applications such as the recovery of gold and other precious metals.

COAL-BASED ACTIVATED CARBON



SPECIFICATION :

ITEM	Coal Based Activated Carbon			
SIZE	0.9mm, 1.5mm, 2mm, 5mm			
IODINE ABSORPTION (mg/g)	≥ 400	≥ 600	≥ 800	≥ 1000
SPECIFIC SURFACE AREA (mg/g)	900	1000	1100	1200
CTC(%)	≥ 45	≥ 50	≥ 55	≥ 65
HARDNESS(%)	≥ 90	≥ 92	≥ 95	≥ 95
MOISTURE(%)	≤ 10	≤ 10	≤ 8	≤ 8
ASH(%)	≤ 12	≤ 12	≤ 11	≤ 10
LOADING DENSITY (g/l)	580 - 620	550 - 570	540 - 550	450 - 500

Coal-based activated carbon is available in four different types of base material - bituminous, sub-bituminous, anthracite, & lignite, consisting of micro, meso and macropore structures. This unique pore distribution makes coal-based activated carbon ideal to remove small to large molecular structures. Typical applications include but are not limited to odour control in liquid & vapour phase applications, improve taste in liquids, liquid decolonization and purification of wastewater & potable water. Coal-based carbon is also available in granular, extruded (Pelletized), and powder forms.

WOOD-BASED ACTIVATED CARBON



SPECIFICATION :

ITEM	Wood Based Activated Carbon		
SIZE	04/8, 4/10, 8/16, 12/30, 8/30, 16/30, 30/80		
IODINE ABSORPTION (mg/g)	≥ 400	≥ 600	≥ 800
SPECIFIC SURFACE AREA (mg/g)	600	800	900
pH	9-11	9-11	9-11
HARDNESS(%)	≥ 90	≥ 92	≥ 95
MOISTURE(%)	≤ 5	≤ 5	≤ 5
ASH(%)	≤ 12	≤ 12	≤ 11
LOADING DENSITY (g/l)	580 - 620	550 - 570	540 - 550

Wood-based activated carbon is produced from selected types of wood and sawdust. This type of carbon is produced by either steam or phosphoric acid activation. Most pores in wood-based carbon are in the meso and macropore region, which is ideal for decentralising liquids and water. Wood base carbon is primarily used in surface water and wastewater filters to remove organic impurities and to effectively remove larger molecular structures like MIB (2-Methylisoborneol) and Gemini. Wood base phosphoric acid activation can yield carbon with a very high surface area, ranging from 1500-2500 m²/g. The product is available in granular, pelletized, or powder forms.

ANTHRACITE



SPECIFICATION :

GRADE	STANDARD GRADE ANTHRACITE	HIGH GRADE ANTHRACITE	ULTRA HIGH GRADE ANTHRACITE	COKE
MOISTURE (MAXIMUM)	15 %	15 %	13 %	5 %
ASH (MAXIMUM)	20 %	15 %	12 %	14 %
VOLATILES (MAXIMUM)	10 %	10 %	5 %	2 %
FIXED CARBON (MAXIMUM)	73 %	80 %	85 %	84 %
SULFUR (MAXIMUM)	1 %	1 %	0.6 %	0.8 %

It is a high – hardness mineral coal of great carbon content. It is formed, like all mineral coals, by a slow process (millions of years) of plant transformation with the effect of pressure and temperature. It is Black & Shiny, the densest and hard of the carbons, with a high carbon content (more than 95%).

Anthracite is an excellent filter media for water clarification in drinking or industrial use when used in combination with filtering sands. It is one of the most used filtering media. It is a good complement for the mixed filters, in the company of sand or green manganese sand. Due to the special shape of its grains, it allows them to be retained in the depth of the filtering bed. Compared to a sand filter, this allows a higher flow, less pressure drop and a better and faster backwash.

GRANULAR ACTIVATED CARBON (GAC)



Granular Activated Carbon (GAC) is made from high-quality raw materials, such as coal, wood, and coconut shell. The adsorption capacity of granular activated carbon makes it ideal for removing a variety of contaminants from water, air, liquids, and gases to improve taste, odour, and colour.

Typical GAC applications are municipal and environmental water treatment, waste gas treatment, mercury removal in industrial gasses, food and beverage, metal recovery, and even medicinal use.

Additionally, various particle sizes of GAC are optimal for use in vapour and liquid adsorption applications. Our coconut shell based activated carbon has a higher percentage of micropores, which makes it highly effective for the filtration of small organic structures, recovery of precious metals and reduction of disinfection by-products in potable water.

POWDERED ACTIVATED CARBON (PAC)



Powdered Activated Carbon (PAC) is similar to Granular Activated Carbon (GAC) as it is made from high-quality raw coal, wood or coconut shell.

PAC is typically considered to have particles less than the U.S standard 80 mesh size, which makes it ideal for water treatment. Our PAC is a reliable, economical water treatment option for taste and odour control and removal of organic compounds.

The use of PAC is beneficial economically and environmentally, since it reduces operating costs, produces minimal waste sludge, allows for the conservation of resources, and provides superior water quality.

PELLETIZED ACTIVATED CARBON



Our Pelletized Activated Carbon is produced from coal, wood, and coconut shell by high-temperature steam activation and manufactured with suitable binders under stringent quality control.

The pelletized carbon has a low ash content, large surface area, high mechanical strength, extended pore volume, and chemical stability. These characteristics make it ideal for many vapour phase applications. The cylindrical uniformity of its shape makes it particularly useful in applications where there is a likelihood of a low-pressure drop over granular activated carbon.

The adsorption capacity of pelletized carbon makes it ideal for removing a variety of contaminants from air and gas streams, the recovery of solvents, and for evaporation emissions controls.

TYPES OF PACKAGING



25KG PVC PACKING BAG WITH PALLET



500KG PVC PACKING BAG



25KG PVC PACKING BAG WITH PALLET

***can be customized as per the customer requirement**

APPLICATION



Waste Water Treatment



Air & Gas Treatment



Pharma



Cosmetics



Industrial Refinery



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