



TOPAZ
WATER TECHNOLOGY

"Committed
To **Quality**
&
Committed
To **You**"

MADE IN 
INDIA 

About Us

TOPAZ WATER TECHNOLOGY is one of the most recognized and trusted brands globally for the manufacture, distribution, supply and trading of Reverse Osmosis (RO) components such as Domestic RO Booster Pumps, RO Inline Filters, RO Membrane, RO Housing, RO Spun Filter, RO Wound Filter, RO GAC/CTO Filter, RO UV Barrel, RO Tubing, RO Accessories, Industrial RO Plants 50 LPH to 10000 LPH Bottling Machine. As global sources of water supply reach their worst levels of contamination, TOPAZ WATER TECHNOLOGY forges ahead in the field of water purification technology to deliver completely safe and healthy drinking water. Designed for residential and light commercial use, TOPAZ WATER TECHNOLOGY offers consumers across the world a dynamic and comprehensive range of RO components to suit all water conditions and in come groups. Today our product range includes a complete collection of water purification components such as RO Systems, Bracket, Filter Wounds, Housing, Membrane and Pump among others. Manufactured domestically from top grade materials, these products are precision engineered to enhance water purification.

OUR VISION :

To create a future where people are safe and the environment is protected from pollution, air, water, food, consumable and Industrial Products.

MISSION :

o contribute to the growth of society as we grow the company business. To unlock the worldwide market potential for the products manufactured locally. To exceed our customer's expectations in quality, delivery, and cost through continuous improvement and customer interaction.



PLATINIUM

100 GPD



| SPECIFICATION | 100 G |
|------------------|-----------|
| Working Pressure | : 80 PSI |
| Max. Pressure | : 140 PSI |
| Open Flow | : 1.6 LPM |
| Max. AMP | : 1.2 A |
| Working AMP | : 1.0 A |
| Voltage | : 24 V DC |

PLATINIUM

150 / 300 GPD



| SPECIFICATION | 150 G | 300 G |
|-------------------|---------------|-------------|
| VOLTS | : 24 VDC | 24 VDC |
| AMP | : 1.4 A | 2.5 A |
| INLET PRESSURE | : 40 PSI | 80 PSI |
| NOMINAL FLOW RATE | : > 2.2 L/MIN | > 5.0 L/MIN |
| WORKING PRESSURE | : 100 PSI | 100 PSI |
| MAX. PUMP OUTPUT | : 140 PSI | 160 PSI |

- Corrosion Resistant Valves
- Quiet Running
- Smooth Operation
- Runs Dry Without Damage
- Low Power Draw
- Easy Connecting System

GOLD

100 / 150 GPD



| SPECIFICATION | 100 G | 150 G |
|-------------------|---------------|-------------|
| VOLTS | : 24 VDC | 24 VDC |
| AMP | : 0.9 A | 1.4 A |
| INLET PRESSURE | : 30 PSI | 40 PSI |
| NOMINAL FLOW RATE | : > 1.5 L/MIN | > 2.5 L/MIN |
| WORKING PRESSURE | : 80 PSI | 100 PSI |
| MAX. PUMP OUTPUT | : 120 PSI | 140 PSI |

TOPAZ
WATER TECHNOLOGY

SPECIFICATION

VOLTS : 24 VDC NOMINAL FLOW RATE : > 1.5 L/MIN
 AMP : 0.9 A WORKING PRESSURE : 80 PSI
 INLET PRESSURE : 30 PSI MAX. PUMP OUTPUT : 120 PSI

GOLD - 100 GPD

BOOSTER PUMP IS DESIGNED FOR REVERSE OSMOSIS WATER PURIFICATION TECHNOLOGY

BOOSTER PUMP

SUPREME

100 / 150 GPD



SUPREME - 100 GPD

SPECIFICATION

| | |
|-------------------|---------------|
| VOLTS | : 24 VDC |
| AMP | : 0.9 A |
| INLET PRESSURE | : 30 PSI |
| NOMINAL FLOW RATE | : > 1.5 L/MIN |
| WORKING PRESSURE | : 80 PSI |
| MAX. PUMP OUTPUT | : 120 PSI |

A DIAPHRAGM BOOSTER PUMP IS DESIGNED FOR REVERSE OSMOSIS WATER PURIFICATION TECHNOLOGY.

BOOSTER PUMP



ZERO NOISE



LOWEST ELECTRICITY CONSUMPTION



LOWEST HEATING



EXCELLENT NOMINAL FLOW



LOWEST VIBRATION



EXCELLENT PRESSURE OUTPUT

HI QUE

100 / 150 / 300 GPD



| SPECIFICATION | 100 G | 150 G | 300 G |
|-------------------|---------------|-------------|-------------|
| VOLTS | : 24 VDC | 24 VDC | 24 VDC |
| AMP | : 1.12 A | 1.4 A | 2.5 A |
| INLET PRESSURE | : 40 PSI | 40 PSI | 80 PSI |
| NOMINAL FLOW RATE | : > 1.6 L/MIN | > 2.2 L/MIN | > 5.0 L/MIN |
| WORKING PRESSURE | : 70 PSI | 100 PSI | 100 PSI |
| MAX. PUMP OUTPUT | : 140 PSI | 140 PSI | 160 PSI |



CLASSIC
100 / 150 GPD



SILVER
100 GPD

EMERALD

INLINE FILTERS



Thread Type Fitting

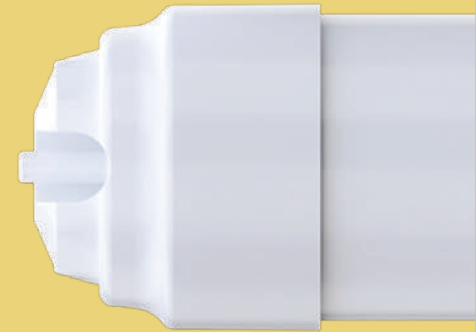


- **Pre Carbon Filter** - 900iv Activated Carbon - Block
- **Sediment Filter** - 5 Micron Spun Filter
- **Post Carbon Filter** - 4" spun + 900iv Coconut Carbon

- **Max. Bursting Press.**
225 PSI / 15.51 BAR
- **Max. Working Press.**
125 PSI / 8.62 BAR

RADIANT

INLINE FILTERS



Quick Type Fitting



- Pre Carbon Filter - 600iv Activated Carbon
- Sediment Filter - 5 Micron Cloth Filter
- Post Carbon Filter - 600iv Carbon

- Max. Bursting Press. 225 PSI / 15.51 BAR
- Max. Working Press. 125 PSI / 8.62 BAR

OVAL

INLINE FILTERS



Quick Type Fitting +
Thread Type Fitting



- Pre Carbon Filter - 600iv Activated Carbon
- Sediment Filter - 5 Micron Cloth Filter
- Post Carbon Filter - 600iv Carbon

- Max. Bursting Press. 225 PSI / 15.51 BAR
- Max. Working Press. 125 PSI / 8.62 BAR

8" Mini Post Filter



100 %
COCONUT
CARBON

- **Get rids of unpleasant smell**
- **Enhance Water Flavour**
- **Granular Post Filter- 900 iv Coconut Carbon**

- **8" Mini Post**
Quick Type Fitting
Thread Type Fitting **+**

MINERAL CARTRIDGE



- ➔ Mineral Additives
- ➔ Remove Bacteria.
- ➔ PH Enhancer.
- ➔ Improves Taste of Water.

- 8" Mineral
 - Quick Type Fitting
 - Thread Type Fitting

ALKLINE CARTRIDGE



- ➔ Mineral Additives
- ➔ Remove Bacteria.
- ➔ PH Enhancer.
- ➔ Improves Taste of Water.

- 8" & 10" Alkline
Quick Type Fitting
Thread Type Fitting **+**

MEMBRANE-100/150/300



Testing Conditions :

- ➔ Testing Pressure 100 Psi (0.69Mpa)
- ➔ Temperature Of Testing Solution 25° C
- ➔ Concentration of Testing Solution (Nacl) 500 PPM

| Model | Average Permeate(GPD) | Stable Rejection (%) | Min. Rejection (%) | Max. TDS |
|---------------|-----------------------|----------------------|--------------------|----------|
| TWTM-2122-100 | 100(12 Ltr/hr) | 96.5 | 95 | 2000 |
| TWTM-2122-150 | 150(17 Ltr/hr) | 96.5 | 95 | 2000 |
| TWTM-2122-300 | 300(24 Ltr/hr) | 96.5 | 95 | 2000 |

SPUN FILTER



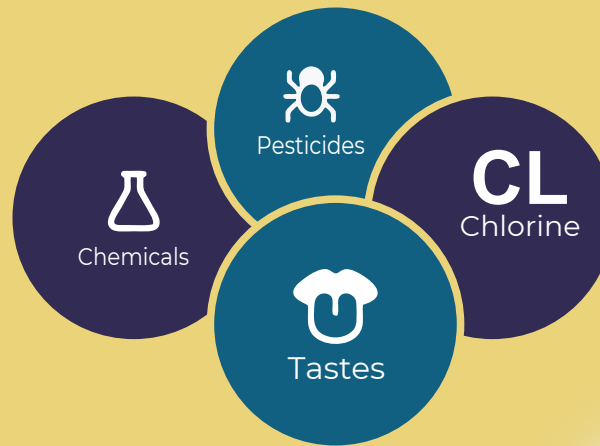
PRODUCT SPECIFICATIONS

| | |
|---------------------------|----------------------------------|
| Micron Rating | 1, 5, 10, 20 μ |
| Length | 10", 20", 30", 40" |
| Diameter | 2 \emptyset to 4.5 \emptyset |
| Max operating temperature | 80° C |
| Max Differential Pressure | 3-4 bar (50 psi) @ 21°C |

FEATURES & BENEFITS :

- High flow rates and low pressure drops
- Wide chemical compatibility
- Particles removed through the entire depth of filter cartridge.
- Graded density structure for maximum dirt holding capacity
- Supported core for overall strength
- Thermal bonding process stops media migration
- Contains no resin binders, solvent ,wetting or antistatic agents

GAC & CTO FILTERS



- ★ Chlorine, ★ Unnatural Tastes
- ★ Pesticides ★ Odors and
- ★ Cloudiness ★ Organic Chemicals



HOUSING



FILTER HOUSINGS

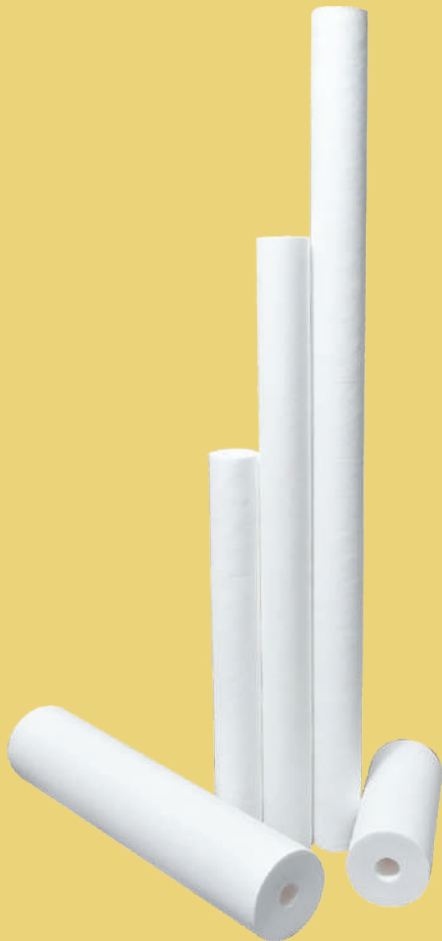
100% Virgin Poly-Propylene
Gross Weight-600 Gms Can Hold
Pressure Up to 300 PSI Double o'ring



MEMBRANE HOUSINGS

100% Virgin Poly-Propylene
Gross Weight-250 Gms
Can Hold Pressure Up to 300 PSI
Double o'ring

SPUN FILTER WOUND FILTER



SPUN FILTER



WOUND FILTER

FEATURES & BENEFITS :

- High flow rates and low pressure drops
- Wide chemical compatibility
- Particles removed through the entire depth of filter cartridge.
- Graded density structure for maximum dirt holding capacity
- Supported core for overall strength
- Thermal bonding process stops media migration
- Contains no resin binders, solvent ,wetting or antistatic agents

PRODUCT SPECIFICATIONS

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| Max Differential Pressure | 3-4 bar (50 psi) @ 21°C |

ACTIVATED CARBON

RANGE

Iodine number : 600-1200

Mesh size: 4×8 to 80×325 (4 mesh to 200 mesh)

Powder carbon with mesh size: Below 325 mesh

Water washed grade

Acid washed grade

Silver impregnated

APPLICATIONS

Color removal in bottled water, Brewery,
Juice & Soft drink industries

Bacteriostatic (Bacteria removal)

Gas treatment

Effluent water treatment

Gold recovery

Dechlorination

Color & odor removal



Coconut Based Activated Carbon



Coal Based Activated Carbon



Wood Based Activated Carbon

ION EXCHANGE RESIN

RANGE

Selective Ion Removal resins

Food Grade

Polyacrylic resins

Mixed Bed resins

Uniform Particle Size

Black Cation resins

Chelating resins



APPLICATIONS

Industrial Demineralization

Ultrapure - Semiconductor Industry

Removal of Radioactive Isotopes from Aqueous Solutions

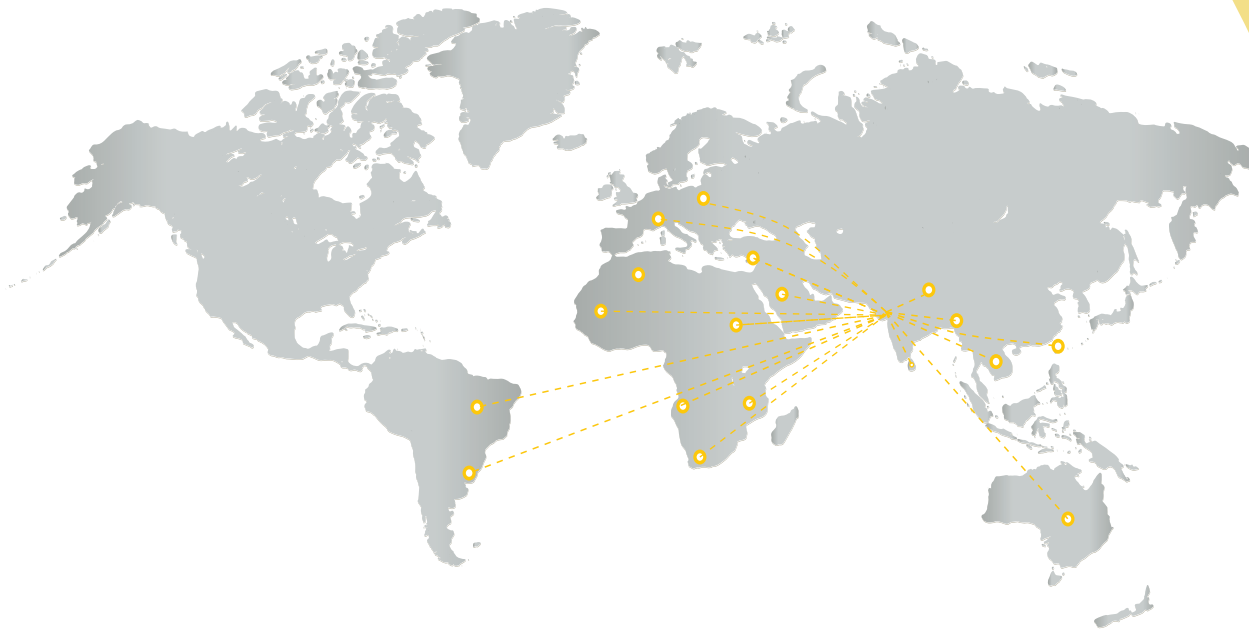
Domestic & Industrial Water Softening

Condensate Polishing

Brine Purification

Nitrate, Arsenic & Boron Removal

Organic Scavenger



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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 | | | |
|--------------------------|--------------------------------------|---------|---------|---------|
| | 8 X 16 | 12 X 30 | 12 X 40 | 16 X 30 |
| 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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