

BRIGHID BIOLOGICALS PVT LTD.



Product

GRANULAR ACTIVATED CARBON

A highly porous adsorbent material, produced by heating organic matter, such as coal and coconut shell, in the absence of air, which is then crushed into granules. Activated carbon is positively charged and therefore able to remove negative ions from the water such as ozone, chlorine, fluorides and dissolved organic solutes by absorption onto the activated carbon. The activated carbon must be replaced periodically as it may become saturated and unable to absorb.

Granular Activated carbon is often used as a filter in water treatment systems, where water is directed downwards through a stationary bed of activated carbon, leaving organic material to accumulate at the top of the bed. Activated carbon is similarly used to lower radon levels in water.



COAL BASED GRANULAR ACTIVATED CARBON

The coal based granular activated carbon is widely used in food industry, medical treatment, mine, metallurgy, petrochemical, steel making , tobacco, fine chemicals and so on. it is applied to high purity drinking water, industrial water and waste water for the purification such as dechlorinate, decoloration and deodorization.

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COCONUT SHELL GRANULAR ACTIVATED CARBON

The most main purpose of coconut shell granular activated carbon is the adsorption and purification; Coconut shell activated carbon can be applied for gold mining with good feedback, this is the main difference from other types of activated carbon. Besides, it can purify water and air, such as beverage, food, and other industries.



2.

Product

POWDERED ACTIVATED CARBON

Powdered, micron-sized activated carbon particles are milled from millimeter granular activated carbon and exhibit faster kinetics and a greater capacity for contaminant removal, when compared to carbons with larger particle sizes.

By varying manufacturing conditions, internal pore structures are created by imparting unique adsorption properties specific to each product type. The choice of product for a specific application will vary due to differing impurities and proprietary process conditions.

Powdered activated carbon can be used for sporadic contaminant episodes, Oil refining, water treatment, effluent treatment and industrial spills, influent waters.

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COAL POWDERED ACTIVATED CARBON

The coal-based powder activated carbon is made of high quality anthracite coal as raw material; by special production process (first carbonization and activation, then grinding into powder) is refined. This product is the appearance of black powder, are not dissolved under the general solution. Odorless, has a flocculation effect and filtration effects and large surface area, adsorption ability, high purity, filter fast, quality stable.



WOOD POWDERED ACTIVATED CARBON

This product made of natural high-quality wood as raw material, using advanced equipment and scientific technology, is processed by burning wood with zero oxygen supply and for acid washed - phosphoric acid mixing and stirring, rinsing and other processes, and form black powder.

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COCONUT SHELL POWDERED ACTIVATED CARBON

This product made of natural high-quality wood as raw material, using advanced equipment and scientific technology, is processed by burning wood with zero oxygen supply and for acid washed - phosphoric acid mixing and stirring, rinsing and other processes, and form black powder.



Product 3.

ANTHRACITE COAL

Our Anthracite filter is made by high quality Anthracite coal, through the selection, powder and screen process, it has good shape, high hardness, anti-pressing and wearing, does not dissolve in acidic, alkaline, neutral water and it is popularly used in various water. The main usage is as water media during water treatments, which can soften the water and improve the taste.

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ANTHRACITE FILTER MEDIA FOR WATER TREATMENT

Anthracite filter media is a filter for water treatment that can be used for the treatment of common acids and moderate alkalis. The surface area of the product is large, and all indicators exceed the construction water standards. Anthracite filter media is especially selected from deep well minerals, so it contains the highest percentage of carbon. The reapplied material is often washed and washed to ensure that the product has a good effect on water filtration. Our Anthracite filter is made by high quality Anthracite coal, through the selection, powder and screen process, it has good shape, high hardness, anti-pressing and wearing, does not dissolve in acidic, alkaline, neutral water and it is popular used in various water treatment

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Product 4.

SMOKELESS BRIQUETTES

Our briquette is a product derived from coconut shell charcoal and coal dust char. They are widely used for various needs, such as for purposes of shisha, barbecue, cooking, and some other heating needs. Its natural, odorless, smokeless and "healthy" characteristic are the reasons for people to choose coconut shell charcoal briquettes to meet their fuel needs.

In addition our briquettes, are the most environmentally friendly fuel. Because it is made from natural raw materials. BRIGHID briquette is made with appropriate technology without using any chemical additives. It could produce high enough calories.



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COAL BASED SMOKELESS BRIQUETTES

Our Charcoal Briquette is a compressed type charcoal briquette which is made from coal dust mixed with saw dust. Our charcoal briquette is made of granular charcoal which is mechanically crushed, mashed and molded using 100% natural binder without any chemical.



COCONUT SHELL ACTIVATED CARBON BRIQUETTES

Our Coconut Shell Briquette is a compressed type briquette which is made from crushed Coconut shell mixed with saw dust. Our charcoal briquette is made of granular charcoal which is mechanically crushed, mashed and molded using 100% natural binder without any chemical.

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Product 5.

HARD COKE

Hard Coke contains carbon & is a by product that is obtained when various blends of bituminous coal is distilled. Coke is a fuel with few impurities and a high carbon content, usually made from coal.

It is the solid carbonaceous material derived from destructive distillation of low-ash. Low-sulfur bituminous coal. High quality coke is obtained when excellent quality of coal is burned. Cokes made from coal are grey, hard & porous. While coke can be formed naturally, the commonly used form is man-made.



Product

ACTIVATED CARBON PELLETS

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Pellet activated carbon including Coconut Shell, wood and coal. All forms activated carbon pellets product can be used for water treatment. It also has some special functions. Such as removing methane, chlorine, ammonia, nitrogen, benzene, formaldehyde, SO₂ and CO.



COAL BASED ACTIVATED CARBON PELLETS

Coal based crushed cylindrical activated charcoal has large specific surface area, well-developed microporous, high mechanical strength, good adsorption ability, easy regeneration, long service life, high degrees of purification and good resistance performance to high temperature and water immersion.



COCONUT SHELL ACTIVATED CARBON PELLETS

Coconut shell pellet activated carbon with high quality coconut shell powder as raw material, is processed through the series production procedures. Appearance is black

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columnar, developed with gap, adsorption performance is good, high strength, easy regeneration, economic and durable, etc.



WOOD BASED ACTIVATED CARBON PELLETS

It has large specific surface area, developed pores, high strength, strong adsorption capacity and good chemical stability. It can be widely used in chemical, pharmaceutical, food and other gases, harmful and toxic, microbial purification, filtration and adsorption, and can be recycled.



Product

MANGANESE DIOXIDE

We are a leading manufacturer and seller of natural graded Manganese Dioxide for use in water treatment / iron removal / water softening purpose.

Manganese Dioxide (MnO_2) is used in various manufacturing processes but is highly used in the water treatment industry. MnO_2 is used for the

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purpose of softening hard water by the removal of iron and other soluble metals from water. Manganese is generally used in the oxidation chamber of the water treatment plant for oxidising soluble metals, mainly iron for making the water soft and drinkable.

MnO₂ based media are capable of doing two important operations. First, they oxidize the iron into particulate form. Second, the particulates are trapped in the media bed. Upon backwash, the particulates are reduced from the bed

Advantages:

1. True to their compositions
2. Sustains stability
3. Free from all extraneous materials, toxins & dioxins
4. Preserves purity

Parameter:

The following is the parameter information of the Manganese DiOxide Filter media we mainly produce. We can also customize the sizes and grades according to specific client's need.

Our Manganese Dioxide is available in different grades.

1. Manganese Presence 30%
2. Manganese Presence 50 – 55%
3. Manganese Presence 70 – 75%
4. Manganese Presence 80% +

CHEMICAL DETAILS	
ASPECTS	FACTS
General Product Name	Manganous Di Oxide(MnO₂)
Synonyms/Other names	Manganese(IV) oxide, Pyrolusite
HS Code	2820.10.00
CAS Number	1313-13-9

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Form	Solid / Powder
PHYSICAL DETAILS	
ASPECTS	FACTS
Appearance	Blackish Brown Powder / Clinkers
Molecular Weight	86.937
Solubility	Water Insoluble / Asid Soluble
Particle Size	100/200/300 mesh
ELEMENTS	
PARAMETER	
Manganese Di Oxide as MnO₂	50-52
Manganese as Mn	34-35
Iron as Fe	8-10% Max
Silica as SiO₂	10-14% Max
Moisture	0.5-1%

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Product

FILTER SAND

Our sand is composed of sub-angular, hard, durable, and dense grains of predominately siliceous material. Extracted from a clean glacial sand deposit, Our Sand's physical properties make it among the finest available in the world for filtration applications.

The sand is washed, clean dried, and screened to meet exacting specifications with strict adherence to quality control.

SAND FILTER MEDIA

We are a trusted name for supplying a wide range of filter media to various industries located in India and abroad. The Water Filter Sand is an ultimate solution to be used for water treatment. It is ultra pure, free from silts and fine stones, has deep bed penetration and longer filter runs. We are known for the quality of products and deliver timely.

SILICA SAND

Silica sand is used to filter and clean Portable water filters and pool filter and sewage treatment plants. It is a highly effective filter media as it holds back precipitates containing impurities. Filter sand size, angularity and hardness are the important silica sand characteristics to ensure proper filtering.

Acuro provides Silica Sand with exceptional water filtration capabilities.

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SILICA SAND:

- Non-toxic
- Rough texture
- Eco-friendly
- Adequately larger grains
- More than 96% free of organic matter, no clay, no radiation
- Higher flow rates
- Reduced consumption of backwash water
- Odorless
- Stainless
- High mechanical strength of silica sand and silica gravel
- Absolute density
- High acid solubility
- Cost competitive

QUARTZ SAND

Quartz is a natural mineral mainly composed of silica which is then washed, sieved, dried and bagged. It is neutral, slightly angular and has a beige / light grey colour.

Good quality filter media is essential for monitoring and extraction wells in order to retain most of the formation material and to maximise hydraulic response.

KEY FEATURES AND BENEFITS :

- Excellent porosity
- Wide range of sizes
- Washed, dried & bagged

COARSE SAND

We specialize in trading high quality Coarse Sand. Due to erosion effect these rock fragments gets naturally tumbled with flowing river water from mountains towards planes, making its surface smooth. To avoid any impurity, our quality experts test this sand on set parameters of quality in adherence to defined standards.

Leveraging over the skills of our qualified team of professionals, we are instrumental in offering wide range of Coarse Sand.

KEY FEATURES AND BENEFITS:

- High effective
- Long shelf life

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- Effective usage

Features:

- Used for filtering water
- High quality
- Uniform in size

Our Filter Sand over other silica sands:

- Increased surface area improves particle removal while still providing maximum water flow
- Deep bed penetration
- Longer filter runs
- Maximum turbidity entrapment provided by sub-angular shape
- Less than 0.5 % acid solubility
- It is virtually free from fines and silts
- Significant amounts of time and water is saved in the start-up backwash cycle through reduced initial backwash cycles
- Washed, dried and screened to meet exacting specifications
- High quality silica sand and consistent uniformity
- Filter media that meets or exceeds ISI specifications
- Uniform coefficients less than 1.4 resulting in a highly uniform bed
- Water output quality 10 -15 microns. (sand 0.5 – 1.0 mm)

Filter Media Specifications for Water Filtration:

Specifying Procedure

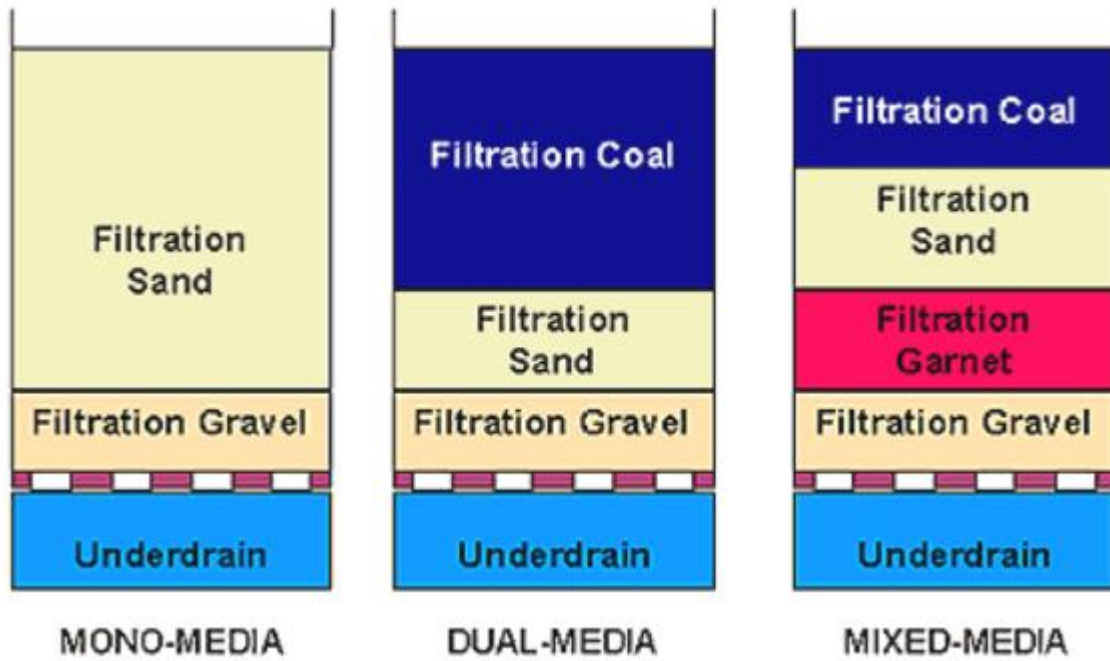
When specifying filter media size, it is best to state the Effective Size and Uniformity Coefficient or the Nominal Size required. Only one system should be used. If in doubt, please contact our technical service team who will be pleased to assist in explaining the best method for specifying.

Effective Size (e.s.) -The sieve size opening that will allow 10 percent, by weight, of a representative sample for the filter material to pass.

Uniformity Coefficient (U.C.) -The ratio of the sieve size opening from which 60 percent of the sand, by weight, will pass divided by the sieve size opening from which 10 percent of the sand, by weight, will pass.

Typical Filtration Bed Profiles

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Parameter:

The following is the parameter information of the Sand Filter media we mainly produce. We can also customize the coarseness and sizes according to specific client's need.

PRODUCT	3 GRAVEL	4 GRAVEL	5 GRAVEL	6 SAND
SIEVE SIZE	TYPICAL GRADING ANALYSIS TEST RESULT PERCENT PASSING (%)			
40.00
22.40	100	.	.	.
19.00	82	.	.	.
13.20	16	100	.	.
11.20	2	92	.	.

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PRODUCT	3 GRAVEL	4 GRAVEL	5 GRAVEL	6 SAND
9.50	.	60	100	.
6.70	.	10	99	.
4.75	.	1	46	.
3.35	.	.	4	100
2.36	.	.	1	87
2.00	.	.	.	60
1.75	.	.	.	16
1.40	.	.	.	1
1.21
1.00
0.85
0.71
0.60
0.50
0.43
0.30

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PRODUCT	3 GRAVEL	4 GRAVEL	5 GRAVEL	6 SAND
0.21
0.15
0.075
NORMAL SIZE(mm)	12-25mm	6-12mm	3-6mm	1.5-3.0
LIMITS(%)	8% +/-	8% +/-	8% +/-	8% +/-
EFFECTIVE SIZE(mm)
UNIFORMITY COEFFICIENT
BULK DENSITY	1.5	1.5	1.5	1.5
SPECIFIC GRAVITY	2.65	2.65	2.65	2.65
ACID SOLUBILITY	<2%	<2%	<2%	<2%

* 7M products are made to order only

* If these standard sizes are unsuitable, please contact our technical staff for your specific needs.