



MICBAC INDIA

CONFIDENCE OF NEW INDIA



Made In
INDIA
For The
WORLD





MICBAC India is one of the largest manufacturers and global supplier of high-quality Activated carbon since 25 years, used in a growing range of Waste water treatment industry, Water filtration, Oil refineries, Air purification, Gold recovery, food and pharmaceutical industry. Further more, As MICBAC India expanded and evolved, we have extended our production line to coal briquettes, Anthracite Filter Media, as well as Hard Coke.

We have an annual production capacity of **20,000 Metric tonnes** including Wood based Activated Carbon, Coal based Activated Carbon and Coconut Shell based Activated Carbon. We are always ready with humongous stock and ready to take bulk orders **24x7**. Having significant production capabilities and supply capability, We can transport **1000 M.T** to any country at any point of time and ensure regular and uninterrupted availability of consistent quality products for our customers. Our strict quality assurance team and procedures ensure that the delivered product meets and exceeds the specified requirements with excellent customer service, each and every time.

- **Export quality manufactured with International Standards at the state-of-the-art manufacturing facility in 3 cities of India.**
- **We have Internationally recognized certificates from Kosher / Halal / HACCP / ISO 9001:2015, to prove that our products are safe to use in human consumption products like edible oil, Drinking water, Beverages, etc.**
- **Dust free carbon requires minimum back washing and helps our customer to conserve the water**
- **"Competitive Pricing" and on Time Delivery is our major strength**



MICOCO

Series of Coconut Shell Activated Carbon





ACTIVATED CARBON

TECHNICAL DATA SHEET | COCO

MICOCO™

MICOCO is a high activity **Granular Activated Carbon** for use in various water treatment applications. It is manufactured from specific grades of coconut shell to produce a high quality carbon that can be regenerated after being saturated. It is black appearance, granular shape, with developed pores, good adsorption performance, high strength, economic durability and numerous advantages. It is a proven product used by a variety of customers and applications, including gold recovery, gas adsorption, soft drink manufacturers, breweries, waste water treatment and drinking water purification.

S.NO	TEST PARAMETER	MICOCO 40	MICOCO 50	MICOCO 55	MICOCO 60	STANDARDS
1	CTC VALUE	40	50	55	60	ASTM D3467
2	IODINE VALUE	900 mg/gm (Min)	1000 mg/gm (Min)	1100 mg/gm (Min)	1150 mg/gm (Min)	ASTM D4607
3	MOISTURE (%)	BELOW 5%	BELOW 5%	BELOW 5%	BELOW 5%	ASTM D2867
4	ASH (%)	<5	<5	<5	<5	ASTM D2866
5	pH	9-11	9-11	9-11	9-11	ASTM D3838
6	BULK DENSITY	480Kg/M3	460Kg/M3	455Kg/M3	450Kg/M3	ASTM D1895
7	HARDNESS	98% (MIN)	98% (MIN)	98% (MIN)	98% (MIN)	ASTM D3802
8	MESH SIZE	4X8, 6X12, 8X16, 8X30, 12X40, 30X60 OR AS PER ORDER				ASTM D2862

*TYPICAL PROPERTIES: K VALUE > 24KG/ TONNE, R VALUE : 65%

For more information visit: www.micbacindia.com



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MICARBZ

Series of Coal Activated Carbon





ACTIVATED CARBON

TECHNICAL DATA SHEET | H50+

MICARBZ™ H50+

MICARBZ H50+ is a range of is a high-activity, **Granular Activated Carbon** manufactured by steam activation from selected grades of Imported Coal. MICARBZ H50+ is designed and optimised for water treatment, It is a high-density adsorbent and provides maximum volume activity. Its excellent hard-ness and mechanical strength ensures negligible losses during the process application. Like all MICBAC Products, our Activated Carbon is closely controlled to ensure batch-to- batch consistency, optimum process control and inspection reliability.

S.NO	TEST PARAMETER	SPECIFICATIONS	STANDARDS
1	IODINE VALUE	500 mg/gm (Min) upto 1200 mg/gm	IS 2752 : 1995
2	HARDNESS	95% MIN	ASTM D3802
3	BULK DENSITY	550Kg/M3 - 650Kg/M3	ASTM D1895
4	pH	08 - 11	ASTM D3838
5	MOISTURE (%)	<5	ASTM D2867
6	MESH SIZE	4X8, 8X16, 8X30, 30X60 OR AS PER ORDER	ASTM D2862

Advantages

- High adsorption capacity
- Excellent deodorisation and decolourisation
- Cost effective due to low density and high production capacity

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ACTIVATED CARBON

TECHNICAL DATA SHEET | MICSORB

MICSORB™

MICSORB is a range of is a Coal-based **Pellet Activated Carbon** manufactured by thermal activation process from selected grades of bituminous coal that have first been pulverized then extruded.

Like all MICBAC Products, our Activated Carbon is closely controlled to ensure batch-to- batch consistency, optimum process control and inspection reliability.

S.NO	TEST PARAMETER	MICSORB 30	MICSORB 50	MICSORB 60	STANDARDS
1	CTC ACTIVITY	30	50	60	ASTM D3467
2	IODINE VALUE	700 mg/gm	850 mg/gm	950 mg/gm	ASTM D4607
3	APPARENT DENSITY	450Kg/M3 - 550Kg/M3	450Kg/M3 - 550Kg/M3	450Kg/M3 - 550Kg/M3	ASTM D2854
4	HARDNESS	98% (Min)	98% (Min)	98% (Min)	ASTM D3802
5	ASH	14% (MAX)	14% (MAX)	14% (MAX)	ASTM D2866
6	MOISTURE CONTENT	< 3%	< 3%	< 3%	ASTM D 2867
7	PARTICLE SIZE	4 mm dia	4 mm dia	4 mm dia	ASTM D2862

Advantages

- Effective Removal of VOCs and Odors
- Low Pressure Drop
- Efficient adsorption of airborne pollutants, including harmful gases such as sulfur dioxide, nitrogen oxides, carbon monoxide, mercury, ammonia, and hydrogen sulfide

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ACTIVATED CARBON

TECHNICAL DATA SHEET | MICSORB 60

MICSORB™ 60+ KI

MICSORB 60+ KI is a range of is a Coal-based Pellet Activated Carbon impregnated with Ki (Potassium Iodide) designed for enhanced adsorption performance. Engineered specifically for applications requiring the removal of acidic gases, volatile organic compounds (VOCs), and other contaminants, this product offers superior chemical stability and durability.

Like all MICBAC Products, our Activated Carbon is closely controlled to ensure batch-to- batch consistency, optimum process control and inspection reliability.

S.NO	TEST PARAMETER	SPECIFICATIONS	STANDARDS
1	CTC ACTIVITY	60	ASTM D3467
2	IODINE VALUE	900 mg/gm (Min)	ASTM D4607
3	H2S ADSORPTION CAPACITY	0.25 g/cc	ASTM D6646
4	APPARENT DENSITY	450Kg/M3 - 550Kg/M3	ASTM D2854
5	HARDNESS	98% (Min)	ASTM D3802
6	ASH	15% (MAX)	ASTM D2866
7	MOISTURE CONTENT	< 15%	ASTM D 2867
8	PARTICLE SIZE	4 mm dia	ASTM D2862
9	PH	9.0 - 11.5	ASTM D3838

Advantages

- Effective Removal of VOCs and Odors
- Large Pore Volume
- Low Pressure Drop
- Excellent Breakthrough Capacity

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ACTIVATED CARBON

TECHNICAL DATA SHEET | M200

MICBLAC™ M200

MICBLAC M200 is a range of **Powdered Activated Carbon** produced by steam activation under stringent operating conditions. MICBLAC M200 is designed and optimised for edible oil refining for decolourising and removal of dirt as well as microimpurities. The powder has large pore volume, rapid adsorption makes it ideal for edible and non edible oil refining, waste water purification.

S.NO	TEST PARAMETER	SPECIFICATIONS	STANDARDS
1	IODINE VALUE	500 mg/gm (Min) Upto 600 mg/gm	IS 2752 : 1995
2	MOISTURE (%)	BELOW 5%	ASTM D2867
3	BULK DENSITY	480Kg/M3 - 500Kg/M3	ASTM D1895
4	pH	9-11	ASTM D3838
5	MESH SIZE	90% pass through 200 mesh	ASTM D2862

Advantages

- Highly effective in removal of dissolved organic matter
- Cost effective in elimination of pesticides and pollutants .
- Excellent performance in decolourisation.

For more information visit: www.micbacindia.com



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MICWOOD

Series of Wood Activated Carbon





ACTIVATED CARBON

TECHNICAL DATA SHEET | M500

MICBLACTM M500

MICBLAC M500 is a range of **powdered activated carbon** produced by steam activation under stringent operating conditions. MICBLAC M500 is designed and optimised for edible oil refining for decolourising and removal of dirt as well as microimpurities. The powder has large pore volume, rapid adsorption makes it ideal for edible and non edible oil refining, waste water purification.

S.NO	TEST PARAMETER	SPECIFICATIONS	STANDARDS
1	IODINE VALUE	700 mg/gm (Min) Upto 800 mg/gm	IS 2752 : 1995
2	MOISTURE (%)	BELOW 5%	ASTM D2867
3	BULK DENSITY	480Kg/M3 - 500Kg/M3	ASTM D1895
4	pH	9-11	ASTM D3838
5	MESH SIZE	90% pass through 200 mesh	ASTM D2862

Advantages

- Highly effective in removal of dissolved organic matter
- Cost effective in elimination of pesticides and pollutants .
- Excellent performance in decolourisation.

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ACTIVATED CARBON

TECHNICAL DATA SHEET | M800

MICWOOD™ M800

MICWOOD M800 is a range of powdered activated carbon produced by steam activation under stringent operating conditions. MICBLAC M800 is designed and optimised for water treatment & edible oil refining for decolourising and removal of dirt, BOD, COD as well as microimpurities. The powder has large pore volume, rapid adsorption makes it ideal for edible and non edible oil refining, water purification and various other applications.

S.NO	TEST PARAMETER	SPECIFICATIONS	STANDARDS
1	IODINE VALUE	800 mg/gm	ASTM D4607
2	MOISTURE (%)	BELOW 5%	ASTM D2867
3	BULK DENSITY	470Kg/m ³	ASTM D1895
4	ASH	<12%	ASTM D2866
5	pH	9-11	ASTM D3838
6	MESH SIZE	90% pass through 200 mesh	ASTM D2862

Advantages

- Highly effective in removal of dissolved organic matter
- Cost effective in elimination of pesticides and pollutants .
- Excellent performance in decolourisation.

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ACTIVATED CARBON

TECHNICAL DATA SHEET | M SERIES

MICWOOD™

MICWOOD is a range of **Pine Wood** based **Powdered Activated Carbon** produced by steam activation under stringent operating conditions. MICWOOD is designed and optimised for various industrial application like Water Treatment & Edible oil refining for decolourising and removal of dirt as well as microimpurities. The powder has large pore volume, rapid adsorption makes it ideal for edible and non edible oil refining, water purification and various other food applications.

S.NO	TEST PARAMETER	MICWOOD M 900	MICWOOD M 1000	MICWOOD M 1100	STANDARDS
1	IODINE VALUE	900 mg/gm	1000 mg/gm	1100 mg/gm	ASTM D4607
2	MOISTURE (%)	BELOW 3%	BELOW 3%	BELOW 3%	ASTM D2867
3	BULK DENSITY	360Kg/m ³	340Kg/m ³	340Kg/m ³	ASTM D1895
4	ASH	<9%	<9%	<9%	ASTM D2866
5	pH	9-11	9-11	9-11	ASTM D3838
6	MESH SIZE	90% passing through 200 MESH			ASTM D2862

Advantages

- Excellent performance in decolourisation.
- Highly effective in removal of dissolved organic matter
- Cost effective in elimination of pesticides and pollutants.

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ANTHRACITE FILTER MEDIA

TECHNICAL DATA SHEET

ANTHRAZORB™

ANTHRAZORB 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 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. MICBAC Anthracite filter is made by high quality Anthracite coal, through the selection 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.

S.NO	TEST PARAMETER	SPECIFICATIONS	STANDARDS
1	FIXED CARBON (DB)	85% (Min) Upto 92 % (Max)	IS 17246-2010
2	MOISTURE (%) (ARB)	BELOW 10%	IS 11722-2013
3	BULK DENSITY	750Kg/M3 - 900Kg/M3	IS 17246-2010
4	ASH (%)	5%	IS 1171-2010
4	VOLATILE MATTER	7-8%	IS 562-2010
5	MESH SIZE	0.6 - 1.2mm , 0.8 - 1.6mm or AS PER ORDER	ASTM D2862

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ANTHRACITE COAL.

TECHNICAL DATA SHEET

ANTHRAZITE™

ANTHRAZITE is finest grade of **Anthracite Coal**. It is a unique high-tech raw material characterized by the maximum carbon content. In various grades of coal. The higher the carbon content in coal, the smaller the volume of various impurities, such as ash, sulphur which makes our anthracite coal the most advantageous for combustion, as it gives the maximum amount of energy. In its calorific value, UHQ anthracite surpasses all other grades of coal .

Products : High Carbon Additive, Carburizer/Recarburizer for steel production and casting

S.NO	TEST PARAMETER	SPECIFICATIONS	STANDARDS
1	FIXED CARBON (DB)	89% (Min) Upto 92 % (Max)	ISO 17246
2	MOISTURE (%) (ARB)	BELOW 5%	ISO 589
3	BULK DENSITY	750Kg/M3 - 900Kg/M3	ASTM D1895
4	ASH (%)	5%	ASTM D2862
5	VOLATILE MATTER	3%	ISO 562
6	SULPHUR (%)	<1%	ISO 334
7	PHOSPHOURUS (%)	0.05%	ISO 622:2016
8	PARTICLE SIZE	1-3mm , 1.0-6.0mm, 3.0-8.0mm, 4.0-8.0mm 0-13mm, 10-30mm or AS PER ORDER	ASTM D2862

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BLEACHING EARTH

TECHNICAL DATA SHEET

MICBLEACH™

MICBLEACH is our high-quality **BleachingEarth** is specifically formulated for edible oil refining. It efficiently removes impurities, such as color pigments and unwanted odors, while preserving the nutritional value of the oil. With its exceptional bleaching properties, our product ensures the production of premium-grade rice bran oil, meeting the stringent standards of the industry.

S.NO	TEST PARAMETER	MICBLEACH GOLD+ R	MICBLEACH GOLD+ S	MICBLEACH ECO UNI	STANDARDS
1	RESIDUAL ACIDITY AS % H ₂ SO ₄	0.15 MAX	0.15 MAX	-	IS 1035:1972
2	BLEACHING EFFICIENCY	98% against Gallion V2	98% against Tonsil 230FF	76% against Tonsil 230FF	IS 1035:1972
3	MOISTURE	<5%	<5%	<8%	IS 1035:1972
4	ODOUR	ODOURLESS	ODOURLESS	ODOURLESS	IS 1035:1972
5	pH	4.0 - 4.50	4.0 - 4.50	6.0 - 6.50	IS 1035:1972
6	BULK DENSITY	0.60 gm/cm ³	0.60 gm/cm ³	0.70 gm/cm ³	IS 1035:1972
7	APPEARANCE	FREE FLOWING PINK TO OFF-WHITE	FREE FLOWING PINK TO OFF-WHITE	FREE FLOWING PINK TO OFF-WHITE	IS 1035:1972
8	PARTICLE SIZE DISTRIBUTION	94% pass through 75 microns	94% pass through 75 microns	90% pass through 75 microns	IS 1035:1972

Advantages

- Highly effective in bleaching of edible and non-edible oils
- Cost effective in elimination of impurities in the application.
- Excellent performance in decolourisation.

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ACTIVATED CARBON

TECHNICAL DATA SHEET | ION ER

MICION™

MICION is a high-performance **Ion Exchange Resin**, engineered for superior water purification and ion removal. Its advanced technology ensures efficient and reliable results, making it the ideal choice for industries and applications requiring top-tier water treatment solutions. Trust **MICION** for soft crystal-clear, pure water every time.

S.NO	TYPICAL CHARACTERISTICS	MICION S-20NA	MICION MB 50	MICION A 14 CL
1	APPEARANCE	Spherical Beads	Spherical Beads	Spherical Beads
2	MATRIX	Styrene DVB Copolymer	Styrene DVB Copolymer	Styrene DVB Copolymer
3	FUNCTIONAL GROUP	Sulphonic Acid	Sulphonic & Quaternary Ammonium	Quaternary Ammonium
4	IONIC FORM	Sodium	H/OH	Chloride
5	EXCHANGE CAPACITY	2.1 m3/l	1.8 m3/l	1.3 m3/l
6	MOISTURE	40-45%	45-50%	48-55%
7	EFFECTIVE SIZE	0.45 - 0.55 mm	0.45 - 0.55 mm	0.45 - 0.55 mm
8	UNIFORMITY COEFFICIENT	1.6 mm	1.6 mm	1.6 mm
9	MAXIMUM OPERATING TEMPERATURE	120'C	80'C	80'C
10	BACKWASH SETTLED DESNITY	830-870 g/l	700-750 g/l	660-700 g/l

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MANGANESE DI-OXIDE FILTER MEDIA

TECHNICAL DATA SHEET

MANGNEEZTM

MANGNEEZ is used in various manufacturing processes but is highly used in the water treatment industry. MnO_2 is used for the 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..

TECHNICAL DATA SPECIFICATION

MNO ₂	38%	42%	50%	60%	70%	82%
MANGANESE (MN)	27%	32%	36%	39%	55%	67%
IRON (FE)	18%	14%	13%	4.8%	1.07%	1.02%
SILICA (SIO ₂)	3%	3%	3%	11.35	4.0%	3%
MOISTURE	2%	2%	2%	1-2%	0.62%	0.50%
APPEARANCE	Brown / Blackish Granulars					
PARTICLE SIZE	As per order					

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GARNET

TECHNICAL DATA SHEET

REDGAR AL21TM

Alamdite type garnet sand is a high-performance abrasive material, widely recognized for its hardness, durability, and effectiveness in various industrial applications. Derived from naturally occurring Almandine garnet, this sand boasts excellent physical and chemical properties, making it ideal for cutting, blasting, and filtration processes.

S.NO	TEST PARAMETER	SPECIFICATIONS	STANDARDS
1	MEDIA	Red Garnet	GRAINS
2	SiO ₂ %	75%	AWWA B100-96
3	PARTICLE SIZE	4X8, 6X12, 8X16, 8X30, 12X40, 30X60 Or as per order	ASTM D2862
4	MOISTURE (%) (ARB)	<5%	AWWA B100-96
5	HARDNESS (MOHS)	6-8	ASTM D 3802
6	BULK DENSITY	2.1 -2.2 g/cm ³	AWWA B100-96

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SAND FILTER MEDIA

TECHNICAL DATA SHEET

AQUASTRAIN™

AQUA STRAIN is a SAND FILTER MEDIA with MINERAL BOOSTER which is a versatile product designed for various water treatment applications. It is ideal for use in wastewater treatment, water purification, and effluent treatment processes. With its dual filter media composition, it effectively removes impurities and enhances filtration efficiency, ensuring clean and safe water. This mineral booster is a reliable solution for improving the performance of sand filters in different water treatment systems.

S.NO	TEST PARAMETER	SPECIFICATIONS	STANDARDS
1	MEDIA	Quartz Sand	GRAINS
2	SiO ₂ %	98%	AWWA B100-96
3	PARTICLE SIZE	3 -6 mm	ASTM D2862
4	MOISTURE (%) (ARB)	<5%	AWWA B100-96
5	BULK DENSITY	1.9 - 2.2 g/cm ³	AWWA B100-96
6	ABSOLUTE DENSITY	2.65 g/cm ³	AWWA B100-96

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GRAVEL FILTER MEDIA

TECHNICAL DATA SHEET

STONEX™

STONEX is a **GRAVEL FILTER MEDIA** which is a versatile product designed for various water treatment applications. It is ideal for use in wastewater treatment, water purification, and effluent treatment processes. With its dual filter media composition, it effectively removes impurities and enhances filtration efficiency, ensuring clean and safe water. This mineral booster is a reliable solution for improving the performance of sand filters in different water treatment systems.

S.NO	TEST PARAMETER	SPECIFICATIONS	STANDARDS
1	MEDIA	ROUND GRAVELS	NATURAL
2	MOISTURE (%) (ARB)	<5%	AWWA B100-96
3	BULK DENSITY	1.7 g/cm ³	AWWA B100-96
4	ABSOLUTE DENSITY	2.6 g/cm ³	AWWA B100-96
5	VOLATILE MATTER	7-8%	AWWA B100-96
6	PARTICLE SIZE	6-12 mm, 12-24 mm Or As Per Order	ASTM D2862

For more information visit: www.micbacindia.com



NOTICE Due to the progressive nature of the MICBAC India Group and the continually improving design and performance of our products, we reserve the right to change product specifications without prior notification. The information contained in this datasheet is intended to assist a customer in the evaluation and selection of products supplied by MICBAC India. The customer is responsible for determining whether products and the information contained in this document are appropriate for customer's use. MICBAC India assumes no obligation or liability for the usage of the information in this datasheet, no guarantees or warranties, expressed or implied, are provided. MICBAC India disclaims responsibility and the user must accept full responsibility for performance of systems based on this data.



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Head Office 2	Kolkata, West Bengal, India
Factories	Hyderabad, Telangana, India Dhanbad, Jharkhand, India
Supply chain warehouse	Chennai, Tamil Nadu, India

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