



COMPANY PROFILE

www.bisjexporters.com



BISJ EXPORTERS PVT LTD

Our Mission

Create that ideal environment with organic, eco-friendly and innovative bamboo products.

Our Vision

Provide a healthier, sustainable, environmentally friendly alternative with organic bamboo products.

OUR STORY

We began by establishing **BISJ Exporters Pvt. Ltd.** as an exporter of artificial jewellery and handloom items in UK, US, and Canada. A few years later, we came across activated bamboo charcoal. Out of curiosity, we researched further about activated bamboo charcoal and its inherent benefits. We learned that activated bamboo charcoal is natural, sustainable, reusable, and recyclable combined with eco-friendly attributes.

The result? **BISJ Exporters Pvt. Ltd** decided to diversify its business, into Organic Bamboo Farming. In the year 2013 we built our new venture of 200 Acres Organic Bamboo farms in Madhya Pradesh, India.

BISJ Exporters Pvt. Ltd. is excited to bring to you our organic, eco-friendly and innovative bamboo products. This means no chemicals, no toxins or pollutants.



BISJ ORGANIC BAMBOO PRODUCTS

- Organic Bamboo Tea
- Activated Organic Bamboo Nano Charcoal Pharma Grade
- Activated Carbon NanoSilver Cloth For Air Purification.

BISJ Exporters Pvt Ltd
Chandigarh 160036 India
Phone Number 0091 7009272362
Email Id vicky.asingh@gmail.com
Website www.bisjexporters.com





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The Overview of BISJ Activated Carbon NanoSilver Non Woven Cloth

BISJ Activated Carbon NanoSilver Non-Woven Cloth has good adsorption, thin thickness and good air permeability. It can effectively adsorb various industrial exhaust gases, such as benzene, formaldehyde, ammonia, sulfur dioxide, etc. It is often used as the interlayer of surgical face masks in industry and medical industry. It can make various kinds of Activated Carbon face masks, which are environmentally friendly, non-toxic, and non-polluting and can provide heavy metal detection.



The often use BISJ Activated Carbon NanoSilver Cloth is mainly used for making cup-type medical protective face masks, chemical protective clothing and FFP2 industrial face masks, industrial filtration, it can absorb and filter odor, body odor, smoke, toxic, gas, O₃, SO₂, NO, etc. in the air. It can remove heavy metal ions, carcinogens, odor, mildew and bacteria from water.

BISJ Activated Carbon NanoSilver Cloth is high performance activated carbon with the appearance of a fibrous form. It is not an impregnated or coated material and instead is 100% fibrous form activated carbon.

According to United States Environmental Protection Agency (USEPA), air pollution is among the major environmental risks. It has caused the burden of chronic disease and premature death; such as cardiovascular and respiratory diseases. Applying filters is one of the (very) practical ways to reduce such risks. Among conventional filters, textile filters have been developed and, in this field, nonwoven fabrics show extensive application because of their potential properties such as high porosity and absorbency, flexibility, and acceptable durability. Nonwoven fabrics are generally sheets, which lack a definite structure. The filtration process in Nonwoven fabrics is brought about by the interlocking nature of one fiber with the other.

Polypropylene fibers are one of the most important fibers used in this field due to their low cost and potential physical properties (light weight, resistance to moisture and chemicals). A great deal of effort has been put in to increase the textile filtration efficiency and establish new properties in order to meet upcoming necessities of modern societies.

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The most practical achievement is to take advantage of other material properties such as the gas absorption capacity of activated bamboo carbon. The combination of Nonwoven filters and activated carbon can effectively remove many gaseous pollutants, such as NO₂ and CO, from the air and provide relatively acceptable air quality. On the other hand, the spread of chronic diseases such as asthma and influenza through the air can provide enough motivation to develop a new generation of filters with antimicrobial activity.

Silver is considered as a more acceptable antibacterial agent in comparison with other antibacterial agents due to its economical aspects, efficiency and it has also been proved that its harmful effects on the human body are less. As the size of silver particles decreases down to the nanoscale, their specific surface area and hence antibacterial efficacy increase considerably. Acceptable activity of NanoSilver particles against a wide range of microbes can be considered as one of the most potential antimicrobial property of NanoSilver to solve the aforementioned problems.

FEATURES

1. Ten times faster adsorption rate than granular activated carbon and powder activated carbon.
2. While the surface area is extremely large ranging from 700 to 1500 m²/g.
3. 200 - 700 times larger contact area for traces contaminants.
4. The speed of adsorption is high, ranging from 10 to 100 times that of conventional granular activated carbon and powder activated carbon.
5. Larger adsorbing capacity, lighter weights (bulk density 1/10 max.).
6. Causes no scattering of dust and carbon powder, preventing the ambient air from being contaminated.
7. Provides higher molding flexibility to comply with a wider range of applications.

APPLICATION

1. Environmental Protection
2. Chemical Industry
3. Public Health
4. Electrical aspect
5. Military Project
6. Industrial masks
7. Industrial filtration
8. Medical applications

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Chemical Properties :

Moisture	: 1.76 - 2.73 %
Ash Content	: < 2.5 %
Iodine No.	: 500 -1200 mg/g
Carbon	: > 95 %

Typical Properties :

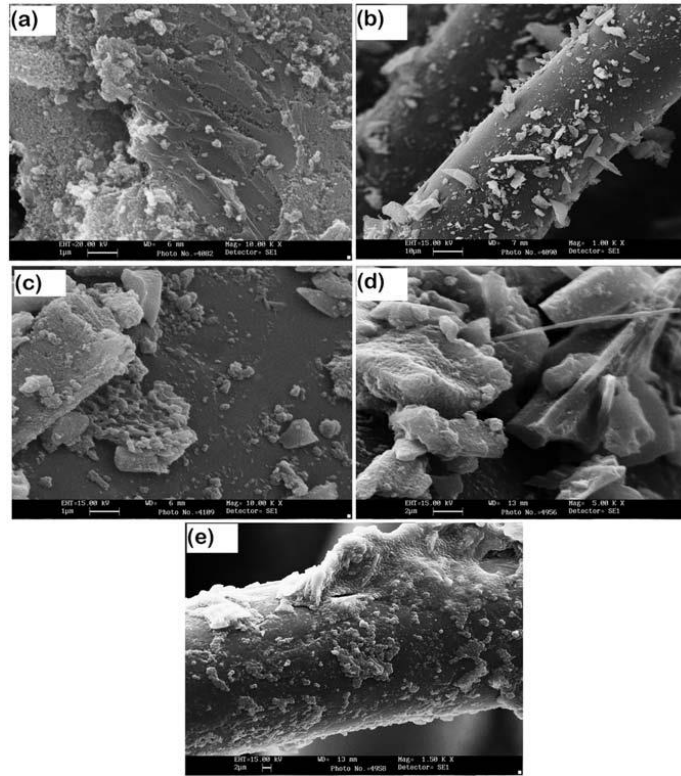
Total Surface Area	: 950 to 2100 Sq mt per gm
Pore Volume	: 0.7 to 1.5 cc/g
Avg. Pore Size	: 20 A°
Sample Density	: 0.444 g/cc
Decomposition temp	: 550 °C

Adsorption Properties of Activated Carbon Cloth:	
Pollutants	: Adsorption by Activated Carbon Cloth
Ni metal ions	: 26%
Pb ions	: 40%
Copper ions	: 16%
Zinc ions	: 15%
Chromium (IV)	: 99 % with 5000 micro gm
Sulphur dioxide	: 88 % with 30 ppm
Hydrgen Sulphide	: 88 % with 30 ppm
Acid vapours (HC1)	: 52%
Adsorption Properties of Activated Carbon Cloth:	
Pollutants	: Adsorption by Activated Carbon Cloth
Organic vapors / Solvents	: 88 to 95% for Benzene, CTC, Hexane, Toluene etc.
Carbon monoxide	: 34 % (Activated Carbon Cloth treated with CuCl & noble metals is expected to show better results)
Ammonia	: Upto 61 % with 1% aqueous solution.





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SEM images:

(a) active bamboo carbon powder; (b) layer coated with active bamboo carbon; (c) layer coated with active bamboo carbon and nano silver 500 ppm; (d) trapping of *E. coli* on layer coated with

active carbon and nano silver 500 ppm; (e) the growth of *S. aureus* on layer coated with active carbon and nano silver 500 ppm.

Collector Type	Efficiency on Particle Size of		
	10 um	5 um	1 um
High Efficiency Cyclones	85.0 %	67.0 %	10.0 %
Fabric Filter	99.9 %	99.9 %	99.0 %
Venturi Scrubber	99.8 %	99.6 %	94.0 %
Electrostatic precipitator	99.0 %	98.0 %	92.0 %

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MADE IN INDIA

India has a tradition of producing beautiful and useful products in its cottage industry. Today many cottage industry products are sold in Indian cities and other countries.

We at BISJ EXPORTERS PVT. LTD. encourages the cottage industry and handmade product starting from the plantation and till the end of making organic bamboo products. We strongly urged Indians to maintain their

traditional village handmade products. We believed that developing these handmade products would help villages become self-sufficient and make India strong.



For any further queries you can reach us on

+91 7009 27 2362 or send us an email at vicky.asingh@gmail.com.

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