

*Purity with Reliability*



Vision Advance Speciality Carbons

Purity with Reliability



## Overview

It has been an ardent endeavour to provide value based purification solutions in the activated carbon industry with our superior quality products and services.

Vas Carbons was born with this aspiration in mind, with one of the biggest state-of-the-art manufacturing facilities in the heart of Karnataka, India, to produce our flagship product, Coconut Shell based Activated Carbon.

Activated carbon strategically purifies and removes contaminants and pollutants from a variety of sources like water, air, gas, food and beverages, pharma products and precious metals.

VAS carbons thus began manufacturing an extensive range of sustainable products that are biologically safe and ecologically friendly for consumption. We offer a plethora of products and services just to serve all our customers. As an ISO 9001 certified company, we employ cutting edge technology to deliver quality and purity to customers worldwide. We continuously strive to enhance the technology to keep abreast of the trends in the industry.

We pride ourselves in offering green solutions for your living, taking the twin factors, Purity and Reliability as our hallmark, for over two decades.

## What makes Indian Charcoal special?

India ranks number one in the total coconut production in the world and South India shares 90% of them. The availability of a coconut in abundance and the superior quality of the shells are some of the key factors which make Indian Charcoal stand out in International arena.

VAS Carbons has been manufacturing the raw material in its own state-of-the-art facility in Karnataka, India for over two decades, thus producing hard shells of superior quality, without procuring them from others.

## Environmental Sustainability

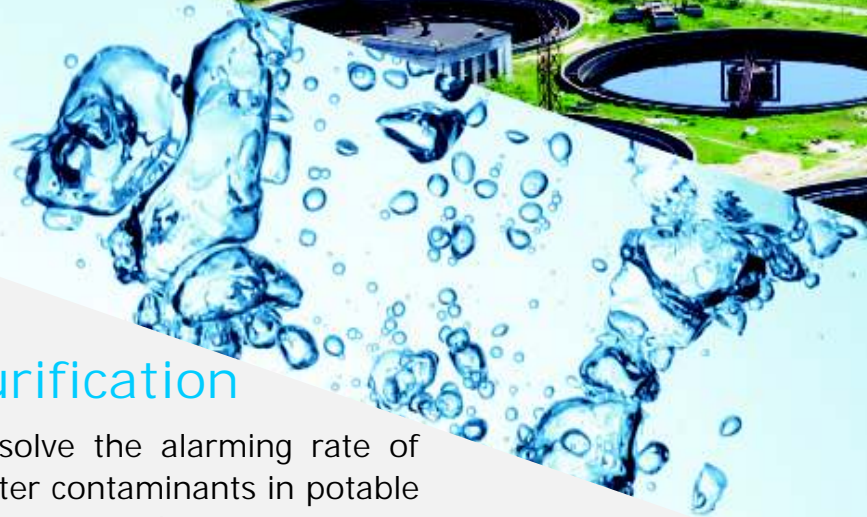
We work to ensure that ethical and sound business practices are being observed at VAS Carbons and we thrive on each other to produce and deliver the best.

We commit ourselves to deliver quality products of utmost purity. In the process, we are also conscious of the impact our factory has on the environment. Reducing the greenhouse gas emissions and our carbon footprint on earth is our prime goal with regards to environment. Coconut shells that are used as raw materials are obtained from nature and emit no Greenhouse gases.



# Product Overview

Vas Carbons are manufacturers of Coconut Shell based Activated Carbon, which is used significantly in varied applications. Vas Carbons customizes Shell based Activated Carbon according to the customer's requirements and specifications.



## Water Purification

The need to solve the alarming rate of increase in water contaminants in potable and sewage water saw the emergence of Shell based Activated Carbon in granular and powdered form.

They help in the removal of Colour, Taste and Odour (CTO) from potable and processed water. Simultaneously, we believe in developing technologies that mitigate the scarce water resources in the world and alleviate the carbon footprints of water.

### Common Mesh Grades for Water Treatment Carbons

Mesh Grade	8x30	12x40	Minus 200
Product Code	VAS W 8x30	VAS W 12x40	VAS W - 200
Wash	Normal / Acid Wash	Normal / Acid Wash	Normal / Acid Wash
Type of Carbon	Granular	Granular	Powder
Iodine No. (mg/gm)	800-1300	800-1300	800-1300
Surface area (m2/gm)	1100 - 1250	1100 - 1250	1100 - 1250
CTC %	40 - 80 Min	40 - 80 Min	40 - 80 Min
Apparent Density (gm/cc)	0.43 - 0.54	0.43 - 0.54	N.A.
Moisture (%) Max.	5	5	8%
Ash (%) Max.	4	4	8%
Hardness	98	98	N.A.
pH	9 - 11	9 - 11	9 - 11





## Air Purification

We live in a world of urbanization which has led to a life fraught with pollution. Shell Activated Carbon adsorbs organic (Volatile Organic Compounds) as well as certain inorganic molecules and odour from air in order to purify the environment around. This is carried out through Vapour Phase range of products from Vas Carbons.



### Common Mesh Grades Carbons for Vapour Phase

MeshGrade	3x6	1/4x6	4x8
Product Code	VAS A 3x6	VAS A 1/4x6	VAS A 4x8
Type of Carbon	Granular	Granular	Granular
Iodine No. (mg/gm)	800-1300	800-1300	800-1300
Surface area (m2/gm)	1100 - 1250	1100 - 1250	1100 - 1250
CTC %	40 - 80 Min	40 - 80 Min	40 - 80 Min
Apparent Density (gm/cc)	0.43 - 0.54	0.43 - 0.54	0.43 - 0.54
Moisture (%) Max.	5	5	8%
Ash (%) Max.	4	4	8%
Hardness	98	98	98
pH	9 - 11	9 - 11	9 - 11

## Cigarette Filters

Smoke from tobacco is a constant peril. It is believed that five million people lose their lives every year due to cigarette related illness. Carbonless filters do not eliminate the toxins expelled from cigarettes. Vas Carbons has effectively been able to remove the complex chemicals from cigarette smoke through their Coconut Shell based Activated Carbon.



## Common Mesh Grades Carbon for Scissors Filter

MeshGrade	12x20	30x60	35x70
Product Code	VAS 12x20	VAS 30x60	VAS 35x70
Type of Carbon	Granular	Granular	Granular
Iodine No. (mg/gm)	1050-1200	1050-1200	1050-1200
CTC %	45 Min 50 Min, and 60 Min	45 Min 50 Min, and 60 Min	45 Min 50 Min, and 60 Min
Apparent Density (gm/cc)	0.43- 0.54	0.43- 0.54	0.43- 0.54
Moisture (%) Max.	5	5	5
Ash (%) Max.	4	4	4
pH	9 - 11	9 - 11	9 - 11
Hardness (Min%)	98	98	98

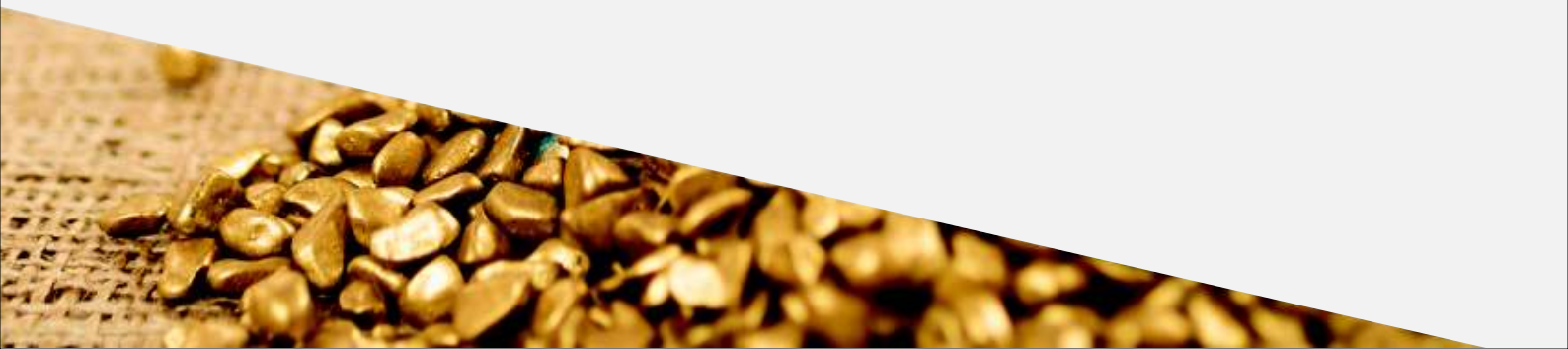


## Gold Purification

Our Gold Carbons offer the highest gold adsorption and desorption capacities to effectively provide minimal loss while maximizing the yield. They are one of the best offered in the industry, which suits all processes, such as Carbon-in-Leach, Carbon-in-Pulp and Carbon-in-Column.

## Common Mesh Grades Carbon for Gold Recovery

GRADE	GAC612A	GAC612B	GAC612C	GAC612A	GAC612B	GAC612C
Type	Granular	Granular	Granular	Granular	Granular	Granular
Particle Size (US Mesh)	6x12	6x12	6x12	8x16	8x16	8x16
CTC Activity (%)	50	55	62	50	55	60
K Value	24	26	32	24	30	30
R Value	47	50	58	47	50	55
Hardness No.	99.2	99	99	99.2	99	99
Apparent Density (gm/cc)	0.53	0.5	0.47	0.53	0.5	0.49
Moisture(%)	4	4	4	4	4	4
Ash(%)	2	2	2	2	2	2
PH	9-11	9-11	9-11	9-11	9-11	9-11



## Petro Chemical

Oil and natural gas come with a lot of discolouration and contaminants. These can be refined using Vas Carbons Shell based Activated Carbon.

They decolor, deodorize, desulphurize and extract impurities and poisonous substances from oil and gas. Additionally, they are used as a catalyst in the synthetic industry.

## Food and Beverage

Vas Carbons Shell based, Activated Carbon is used to de caffeine, remove odour and colour. It acts as a good preservative and can be safely handled without compromising on the quality and efficiency of the food. Activated Carbon helps in enhancing the flavours of certain foods in its powdered and granulated forms.

## Customized Carbons

There is no one size that fits all. Vas Carbons products are customized according to customer specifications and requirements, which vary from surface modification to ash and moisture reduction to abrasion enhancement.

We also manufacture impregnation carbon such as Silver, Potassium Nitrate and Catalytic.



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## Testing Procedure: ASTM STANDARDS

Analysis	ASTM Standards
Particle size distribution	D 2862
Moisture (%)	D 2867
CTC(%)	D 3467
Iodine Value (mg/g)	D 4607
Ash (%)	D 2866
pH	D 3838
Hardness	D 3802

