



*Delve into Pristine water, Rejoice,  
Find Purity in Every Drop of Water.*



Vision Advance Speciality Carbons

**Purity with Reliability**

# Water Purification

Water is slowly becoming a scarce resource in our planet. There has been a receding trend in the global water supply and it becomes imperative to use the available resources in an effective way.

Reusing and recycling water were found to be the best ways to combat this perennial problem. The water from such sources carry impurities and contaminants which require some filtration and processing. Activated Carbon is one of the solutions for this.

Vas Carbons started manufacturing Shell based Activated Carbon to address this problem of water pollution.

Shell based Activated Carbon comprises of Powdered Activated Carbon (PAC) and Granular Activated Carbon (GAC). Every particle of the activated carbon produced has a higher surface area.



## What happens when you have a higher surface area for Activated Carbon?

Each granule is laden with a large surface area (one square inch of activated carbon has a surface area as large as a football field) which helps it to trap the pollutants and contaminants of different nature within the pores in a process called adsorption.

This enables activated carbon to remove the disinfectants and organic compounds from water, easily providing us with a cleaner and safer drinking water.

## Where can you use Activated Carbon?

### Potable Water

Granular and Powdered Activated Carbons are used in different stages of the water treatment processes to prevent the biological growths. They remove suspended solids and organic pollutants from underground water sources, providing water that is clean and safe to drink and free from odour.

### Swimming pools

Water in the swimming pool is cleaned in recirculating systems. Filtration with activated carbon will remove chlorine-nitrogen compounds, organic compounds, etc, very efficiently. Traces of ozone and chlorine residues are also removed through our Vas Carbons Activated Carbon.

### Aquariums

Dissolved organic compounds like tannins and phenols are easily removed by activated carbon. Tannins provide colour to the water, while phenols are some harmful compounds which corrode the things in the water.

## Processed Water

Industries use normal tap waters which are polluted with contaminants. These contaminants adversely affect the industrial plants in terms of efficiency, for which, Shell based Activated Carbon is used in granular form. Such processed water is used for varied applications like, treating haemodialysis patients; manufacturing pharmaceutical products, carbonated drinks and bottled water.



## Groundwater Remediation

The process in which groundwater is treated to remove contaminants, thereby making it harmless is called groundwater reeducation. 25-45% of the drinking water around the world is from underground water namely boreholes and dug wells. Our activated carbon is used to remove dissolved organic compounds and non-biodegradable compounds from groundwater.

## Benefits of using Shell based Activated Carbon

- It is safe and improves the quality of water in terms of flavour and taste
- It also minimizes health related issues
- Besides, it eliminates odour and unpleasant smell from water
- It removes the pollutants, suspended solids or any toxic byproducts emerging from underground water and potable water treatment processes
- Reduces chlorine and dissolved organic contaminants in swimming pools
- Purifies carbon-dioxide in carbonated drinks

Vas Carbons is committed to develop technologies that provide solutions to your water problems, which can be either used alone or in conjunction with others. Our activated carbon is customized based on specific needs of Clients.

## Common Mesh Grades for Water Treatment Carbons

Mesh Grade	8x30	12x40	Minus 200
Product Code	VAS W 8 x 30	VAS W 12 x 40	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 (m <sup>2</sup> /gm)	1100 - 1250	1100 - 1250	1100 - 1250
CTC %	40 - 80 Min	40 - 80 Min	40 - 80 Min

## Common Mesh Grades for Water Treatment Carbons

Mesh Grade	8x30	12x40	Minus 200
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

## 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



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