

# Purer Than Pure

## Contaminant-free water for the semiconductor industry

In semiconductor manufacture, contamination is the enemy. Even minute (ppm or ppb) levels of contamination can cause failure or malfunction in sensitive equipment. That's why leading semiconductor manufacturers trust in the high purity of Haycarb Activated Carbons for this application.

Our activated carbon products are used in a chain of chemical engineering operations designed to remove particles, organic compounds, dissolved ions and dissolved gases from water. These specialized high-purity carbon products are used to remove impurities in influent or in-process water which could damage the very fine circuits of chips used in electronics devices, as well as to purify the wastewater generated by the manufacturing process.

Therefore it is critical that the activated carbon used to treat the water is not a contributory factor to the contamination levels of the water. The coconut-shell carbon we supply has very low ash content compared to coal and peat based activated carbon, giving our products a natural advantage in the quest for purity. Our proprietary acid washing regimes enable us to offer a range of carbon products that are able to meet the high purity levels demanded by this niche application segment.

Haycarb's activated carbons demonstrate superior adsorption qualities, capable of rapid removal of dissolved organic compounds and low molecular weight organics. The superior hardness of the carbon range allows for a longer lifetime without product breakdown in the filter.

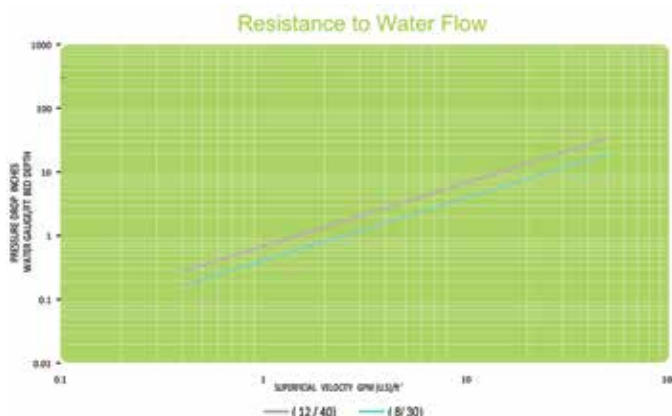


### Technical Information

We will recommend the most suitable grades to use, depending on the requirements and process conditions.

Parameter	Typical Values
Moisture Content ASTM D2867	8% (w/w) max
Hardness No ASTM D3802	98% min
Apparent Density ASTM D2854	0.47 g/cc typical
Ash Content ASTM D2866	0.5% max
Particle Size	8 x 30, 12 x 40

We provide custom designed products for specific customer applications within the general range.



### Packaging

Standard packaging is designed primarily to prevent deterioration of accurately graded granules and preclude the adsorption of moisture or atmospheric contaminants. Other packaging criteria can be accommodated on request.

<b>Bulk Bag</b> Net. 500 Kg	<b>Sacks</b> Net. 25 Kg
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### Product Testing Services

Haycarb's Research & Development laboratories in Sri Lanka and its overseas subsidiaries are equipped to perform all the standard testing required for Activated Carbons together with any other specialized product or application related testing requirements.

### Warranty Disclaimer

Please confirm the specification of any particular grade with your representative prior to purchase. The user is responsible for ensuring that the product is correctly specified prior to purchase and Haycarb makes no express warranty as to suitability for specific application.



Haycarb Activated Carbon grades that are Tested and Certified by NSF International against NSF/ANSI Standard 42 for material requirements only, are listed on: [www.nsf.org/certified/DWTL](http://www.nsf.org/certified/DWTL)

Component



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Activated carbon solutions

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