

## **ACTIVATED CARBONS**

Clean Environmental Concepts, Inc. offers a full range of high quality activated carbons. Virgin and reactivated carbons from various raw materials, including coal and coconut shell, are provided in granular, pelletized and powdered forms. Standard products as well as custom products are available to meet the requirements of your application. Packaged in super sacks, drums, bags, pails, cargo trailers, bulk containers, or your custom containers, most carbons are in stock for quick shipment.

<b>LIQUID PHASE</b>								
<b>Carbon Type</b>	<b>U.S. Mesh</b>	<b>Iodine Number</b>	<b>Density (g/cc)</b>	<b>Density (#/ft<sup>3</sup>)</b>	<b>Moisture (%)</b>	<b>Hardness (#)</b>	<b>Ash (%)</b>	<b>Molasses Number</b>
CGV	**	800-1,000	0.48	30	5	96	12	200
CGV-AW	**	900-1,000	0.47	29	5	96	8	
CGR	**	800-1,000	0.48	30	5	90	12	
NGV	**	1,000-1,100	0.52	33	5	98	4	
NGV-WW	**	1,000-1,100	0.52	33	5	98	2	
NGV-AW	**	1,000-1,100	0.52	33	5	98	1	
NGR	**	900-1,000	0.48	30	5	97	5	
MGR	**	700-1,000	0.47	29	5	90	12	

C=Coal, N=Coconut, M=Mix, G=Granular, V=Virgin, R=Reactivated, AW=Acid Washed, WW=Water Washed

\*\* Standard U.S. Mesh Sizes = 8x30, 8x40, 12x30, 12x40, 20x50

<b>VAPOR PHASE</b>							
<b>Carbon Type</b>	<b>U.S. Mesh</b>	<b>Activity (% CCl<sub>4</sub>)</b>	<b>Density (g/cc)</b>	<b>Density (#/ft<sup>3</sup>)</b>	<b>Moisture (%)</b>	<b>Hardness (#)</b>	<b>Ash (%)</b>
CGV	**	55-65	0.45-0.50	28-31	5	90	12
CGR	**	50-65	0.45-0.50	28-31	5	90	12
CEV	mm	55-80	0.45-0.50	28-31	5	97	12
CER	mm	55-75	0.45-0.50	28-31	5	95	12
NGV	**	60	0.48	30	5	97	5
NGR	**	60	0.48	30	5	97	5
MGR	**	55	0.47	29	5	90	12
CEV-4K	4mm	70	0.60	38	15	8	8
CEV-OC	4mm	70	0.56	38	15	8	8

C=Coal, N=Coconut, M=Mix, E=Extruded (Pellet), G=Granular, V=Virgin, R=Reactivated, AW=Acid Washed

Pelletized (CEV, CER): mm = Diameter (0.9mm - 6.0 mm). Type CEV is also available with 8% ash content

\*\* Standard U.S. Mesh Sizes = 4x6, 4x8, 4x10, 6x12

## ***ACTIVATED CARBON ADSORPTION EFFECTIVENESS***

*Activated carbon removes organic chemicals from waste or process streams in the liquid or vapor phase. Generally, high molecular weight contaminants are more effectively removed by activated carbon than are low molecular weight contaminants. Given organic contaminant identities and concentrations, Clean Environmental Concepts, Inc. can predict the effectiveness and capacity of activated carbon in your application. Useful for project planning, costing and treatment system sizing, activated carbon usage estimates are arrived at through adsorption isotherm based computer modeling.*