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Carbon Black is NOT Activated Carbon Cabot Carbon Black Grades

Cabot Corporation manufactures carbon black (CAS Number 1333-86-4). Cabot does not manufacture activated carbon (CAS Number 7440-44-0). Carbon black and activated carbon are two completely different chemical substances. As documented in the table below, they differ in carbon content, particle shape, inorganic (ash) content and surface area. In addition, the feedstock and manufacturing processes used to produce carbon black and activated carbon differ. Finally, because the physical and chemical characteristics of the particles differ greatly, the principal uses of the two substances are not the same.

	Carbon Black	Activated Carbon
CAS Number	1333-86-4	7440-44-0
Origin	Mineral	Organic
Carbon Content	> 97%	80 – 94%
Morphology	Aciniform aggregate (i.e., grapelike structure)	Ribbons of paper which have been crumpled together, intermingled with wood chips
Ash	< 0.1% to 2%; Common ash constituents are sulfates and oxides	> 6% to 20%; Common ash constituents of coal-based carbons are silica, alumina, iron, calcium and magnesium
Surface Area	Generally less than 600m ² /gram	500 to 1500 m ² /gram
Feedstock	Gas or liquid hydrocarbons	Any organic material with a high carbon content (coal, wood, peat, coconut shells)
Manufacturing Process	Produced by incomplete combustion or thermal decomposition of gaseous or liquid hydrocarbons under controlled conditions	The feedstock is converted to activated carbon by thermal decomposition in a furnace using a controlled atmosphere and heat
Principal Uses	Reinforcing agent in rubber; black pigment in ink, coatings and plastics; to impart electrical conductivity to rubber and plastics	Activated carbon is used in metal extraction (e.g. gold), water purification (especially in home aquariums), medicine, wastewater treatment, filters in gas and filter masks, filters in compressed air and gas purification, and many other applications

This information is being provided as of the date hereof. Please refer to Cabot's website – www.cabot-corp.com - for any updates to this information.

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