

Activated Carbon

Granular Activated Carbon

Activated carbon (AC) is a natural material derived from bituminous coal, lignite, wood, coconut shell etc., activated by steam and other means. Carbon is very popular due to its ability to correct many water quality problems.

Benefits

- Improve taste and remove odors
- Dechlorination of water
- Removes color from water
- Removal of organic substances
- Removal of synthetic organic substances
- Clear water for drinking, bathing and cooking!

Adsorption Influencing Factors

Temperature	Most effective 60°F - 80°F.
pH	Most organics in water are more soluble at pH lower than 7.0.
Contact time	Very important to achieve proper flow rates for any adsorption system to function properly.

Carbon Media Types

Bituminous	Basic coal based granular media
Coconut shell	Superior level of hardness; high activity level; trihalomethane removal; longer life expectancy;
Acid washed	Increases adsorptive capacity of carbon base and lowers the level of impurities.
Catalytic	Specialized carbon media to remove hydrogen sulfide gas, iron, and chloramines.

Ordering Information

MODEL NO.	DESCRIPTION	TYPE	MESH	CUBIC FEET PER BAG	CONTAINER WT. (LBS)	PER PALLET
A9231-ALLF	Alamo Brand Low Fines Coconut Shell	Coconut	12 x 40	1	27.5	40
A9230-AL	Alamo Brand Acid Washed Coconut Shell	Coconut	12 x 40	1	27.5	40
A9030A	Acid washed, low fines	Bituminous	12 x 40	1	27.5	40
A9030-C	Calgon F-200 acid washed, low fines	Bituminous	12 x 40	1	31	40
A9231-AL	Alamo Brand Coconut Shell	Coconut	12 x 40	1	27.5	40
A9031A	Carbsorb™ 40	Bituminous	12 x 40	1	27.5	40
A9031-C	Calgon F-400 low fines	Bituminous	12 x 40	1	27.5	40
A9032A	Carbsorb™ 30	Bituminous	8 x 30	1	27.5	40
A9232-AL	Alamo Brand Coconut Shell	Coconut	8 x 30	1	27.5	40
A9044A	Calgon 20 x 50 mesh media	Bituminous	20 x 50	1	27.5	8
A9231-A	Calgon coconut shell carbon media	Coconut	12 x 40	1	27.5	40

SAFETY MESSAGE: Wet activated carbon preferentially removes oxygen from air. In closed or partially closed containers and vessels, oxygen depletion may reach hazardous levels. If workers are to enter a vessel containing carbon, appropriate procedures for potentially low-oxygen environment should be followed.



Certified to
ANSI/NSF
Std. 61

Standard Operating Conditions

Service flow rate	2 - 6 gpm/cu.ft.
Freeboard	50% of bed depth
pH	6.5 - 7.5

Contaminates Adsorbed

- Chlorine
- Organic Chemicals
- Fertilizers
- TCE (Trichloroethylene)
- EDB (Ethylene dibromide)
- THM (Trihalomethanes)
- Sediment
- Chemical odor
- Pesticides
- Detergents
- Chloramines

Note: Service flow rates are calculated at 2-6 gpm/ft³ for standard taste, odor and chlorine removal application using bituminous carbon. Chloramines and TOC/VOC applications will require lower service flow rates and longer empty bed contact time or specialized carbon formulations.