

Granular Activated Carbon



Granular Activated Carbon (GAC) is an industry standard in water treatment facilities for contaminant capture. CarbPure provides GAC products that are specifically engineered for purification, all of which are domestically sourced and manufactured and meet regulatory certifications and standards.

Our technical experts work collaboratively with our customers to select the appropriate product suited for their specific treatment objectives. All of our products are available for delivery via dedicated pneumatic bulk trailers and super sack (bulk bag) packaging.

CarbPure GAC Product Series

CarbPure's granular activated carbon (GAC) products are produced by agglomeration of a raw bituminous coal-based feedstock sourced in the United States. All products meet the current AWWA B604 standards and are certified to NSF/ANSI 61.

The raw material goes through a multi-staged washing process to significantly reduce the level of impurities and ash from the feedstock. The material is reagglomerated and shaped into a uniform structure before it is carefully steam-activated to produce a granular product with effective adsorption of a broad range of target contaminants. CarbPure GACs are designed to remove dissolved organic and inorganic contaminants from surface and groundwater, wastewater, and various industrial process streams. Contaminants targeted for removal include taste and odor compounds (such as 2-methylisoborneol (MIB) and geosmin), herbicides, hazardous algal toxins (HABs), total organic carbons (TOC); volatile organic compounds (VOC); chlorinated solvents; polychlorinated biphenyls (PCBs); petroleum hydrocarbons like benzene, toluene, ethylbenzene, and xylene (BTEX); per- and polyfluoroalkyl substances (PFAS); and power plant coal combustion residual (CCR) inorganics.

The physical characteristics of CarbPure GACs have been optimized to obtain a high degree of purity, uniformity, hardness to withstand material handling and backwashing, and product performance.



Product Benefits

- CarbPure Technologies' reagglomerated coal-based granular activated carbons are 100% sourced and manufactured in the United States
- High purity, low-ash GAC
- Reagglomeration of ultra-fine, virgin primary particles provides kinetic adsorption benefits
- Uniform GAC shape can provide more efficient packing for low, uniform GAC bed pressure drop.
- Low abrasion design offers improved adsorber life cycle
- Specialized pore sizing and carbon surface characteristics for effective contaminant capture

For product and application specific information please contact CarbPure at info@carbpure.com

CarbPure GAC 830	CarbPure GAC 1240
Iodine Number900 mg/g (min)	Iodine Number1000 mg/g (min)
Moisture 2% _{wt} (max)	Moisture 2% _{wt} (max)
Effective Size 0.8 – 1.5 mm	Effective Size 0.5 – 1.0 mm
Uniformity Coefficient 1.8 (max)	Uniformity Coefficient 1.8 (max)
Abrasion Number 80% (min)	Abrasion Number 80% (min)
Screen Size by Weight, US Sieve Series Numbers	Screen Size by Weight, US Sieve Series Numbers
On 8 mesh 5% _{wt} (max)	On 8 mesh 5% _{wt} (max)
Through 30 mesh 5% _{wt} (max)	Through 30 mesh 5% _{wt} (max)
Typical Properties*	Typical Properties*
Apparent Density 0.52 g/mL	Apparent Density0.5 g/mL
*For general reference, not to be used for purchase specifications	*For general reference, not to be used for purchase specifications

