

We Meet Your Specifications and Exceed Your Expectations.

Asbury Carbons manufactures and supplies products for every step of the casting, forging, extrusions and forming processes.

You have challenges... we offer solutions.

THE MANUFACTURER AND SUPPLIER OF CHOICE

Asbury Carbons is known worldwide for its premier products for a number of applications. Continuing to be a top choice, by offering a full line of carbon and non-carbon products along with technical support and custom product design for your next project. Our products range from standard powdered grades to pelletized products that are low dust and help to keep our customer's plants clean and safe, which is something that ties back to our Core Values.

THE MANUFACTURER AND SUPPLIER OF CHOICE

When it comes to carbon and non-carbon products for a wide and diverse range of industries and applications, Asbury Carbons gives you all the advantages:

- Offering the largest selection of high quality products.
- Shipping from conveniently located facilities in North America, China and Mexico and from warehouses in Europe and Asia.
- Engaging in worldwide network of distributors to keep freight costs low.
- Making overseas shipments available from East coast, West coast, and Gulf ports.
- Offering packaging choices that include drums, bags, bulk sacks, bulk trucks, and barges.
- Offering custom processing and packaging.

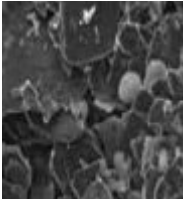
THE MANUFACTURER AND SUPPLIER OF CHOICE

The applications Asbury's products go in to are essential for everyday living. Graphite and carbon products are added to molten iron during the melt cycle to increase strength and machinability of the end-state material. Some of the iron products that use Asbury grades go into automotive items such as engine blocks and brake rotors while other applications are more civic and infrastructure-minded, like manhole and storm drain covers and fire hydrants, which are made by customers like Kennedy Valve.



Natural Flake

Particle Size: 20 mesh - 1 μm
Carbon Content: 70-99.9%



is a naturally occurring form of graphite. Its properties include high thermal and electric conductivity, and low spring-back (excellent molding characteristics). Flake graphite is used in many applications including powder metallurgy, fuel cell bipolar plates, coatings, thermal materials, friction moderators, electrically conductive materials, refractories, general lubricant applications, pencils, gaskets, rubber compounds and other advanced polymer systems.

Natural Amorphous

Particle Size: 5" - 1 μm
Carbon Content: 70-88%



Amorphous graphite is a naturally occurring seam mineral formed from the geological metamorphism of anthracite coal. It's called "amorphous" because to the naked eye, macroscopic graphite crystals are not visible. This form of graphite has a "granular/chunky" appearance.

Synthetic Conventional

Particle Size: 3/8" - 1 μm
Carbon Content: 98-99.9%



Synthetic graphite is manufactured by the high temperature heat treatment of certain amorphous carbon precursors. Ultra-high process temperatures ensure purities higher than 99 percent and full graphitization, resulting in graphite materials with high thermal and electrical conductivity. Calcined needle coke is the primary parent carbon used to manufacture synthetic graphite, which explains the highly acicular morphology observed in this material.

Synthetic Isotropic

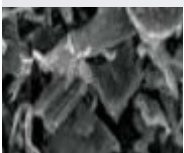
Particle Size: 5" - 1 μm
Carbon Content: 98-99.9%



Isotropic synthetic is generally manufactured using very fine isotropic precursor carbons, giving the final graphite particles isotropic properties. This graphite can have a "blocky/chunky" mass appearance.

Synthetic High Purity

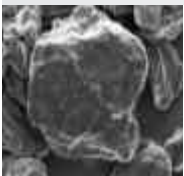
Particle Size: 3/8" - 1 μm
Carbon Content: 98-99.9%



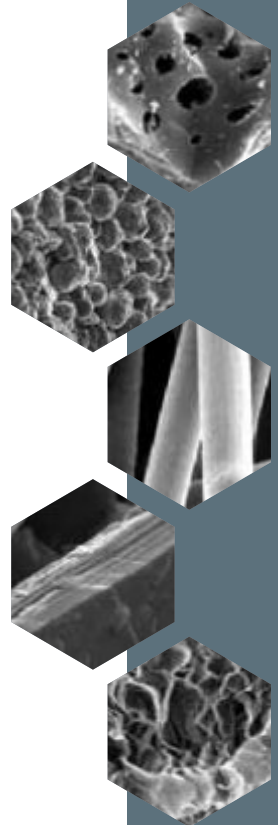
Ultra-high processing temperatures ensure purity higher than 99 percent. High Purity synthetic is made without the use of a binder phase.

Synthetic Graphco

Particle Size: 2" - 1 μm
Carbon Content: 98-99.9%



Graphco is a unique material manufactured by a proprietary continuous thermal process. Using only the highest quality petroleum coke, Graphco is thermally engineered to provide a consistent, high-purity product. The Graphco manufacturing process results in semi-graphitic carbon with low compressibility, which is effective in products and processes that require a powder or granular graphite with high resiliency.



Carbobread
Coarse

Coarse
Flake

Corbobread
Medium

Pellets

Graphite
Lumps

Metallurgical
Coke



COKES, CARBONS, SHAPES

Petroleum Coke

Particle Size: 20 mesh - 1 μm
Carbon Content: 97-99%



A manufactured carbon product that results from the thermal processing of residual oil. Temperatures from 1300 - 1400 degrees C removes virtually all residual hydrocarbons and moisture, ensuring exceptional purity. Petroleum coke is used in applications where high quality, non-graphitic carbons are required including re-carburizers, foundry carbons raisers, cover carbons and reducing agents.

Metallurgical Coke

Particle Size: 5" - 1 μm
Carbon Content: 75-88%



Metallurgical coke (met coke) is manufactured by the destructive distillation of bituminous coal, resulting in a low volatile material. Metallurgical coke is used where a high-quality, tough, resilient, high-wearing carbon is required.

Anthracite Coal

Particle Size: 2" - 10 μm
Carbon Content: 75-90%



Anthracite coal (hard coal) is a naturally occurring low-ash, low volatile, homogeneous coal with a high BTU value. It is used in products and processes where a low conductive, low-cost, black mineral filler is required.

Activated Carbon - Coal

Particle Size: 12x40 - 200 mesh
Carbon Content: 80%



Coal-based activated carbon has a wider ranged pore structure. Softer than in it's coconut shell counterpart, it is suitable for gaseous treatment applications and treatment of liquids such as wastewater.

Activated Carbon - Coconut Shell

Particle Size: 20x50 mesh - 4 μm
Carbon Content: 70-99%



Coconut shell activated carbon has the smallest por structure of all conventional activated carbons. Coconut shell carbons are often used for vapor absorption applications.

Activated Carbon - Wood

Particle Size: -325 mesh
Carbon Content: 90%



Often made from wood pulp and then activated either chemically or via steam, wood-based activated carbon has the largest pore structure, allowing it to be highly effective absorbent agent suitable for use with aqueous solutions in applications such as decolorizing via the removal of organic dyes.

Graphite Shapes - *Molds, Plates, Rods*



Synthetic graphite can be manufactured using precursor carbons of various grain size and morphology. Manufactured items include cubes, cylinders, rings, and various prismatic monolithic forms. During processing, grain sizes can be adjusted, along with particle orientation, to form shapes with either isotropic and anisotropic properties. A range of materials with increasing strength and density are available. Graphite shape can be custom machined to close tolerances into virtually any configurations.

Please contact canadainfo@asbury.com today, for the solutions of tomorrow.