With its high adsorption capacity for a wide array of molecules ranging from odorous compounds to carcinogenic impurities, activated carbon is an excellent choice for purifying gas and air. In many applications, such as personal protection and home air purification, our activated carbon removes dangerous impurities from air streams, providing end customers with clean, non-hazardous air. In other applications, such as biogas treatment and hydrogen separation, our activated carbon is selected to lower our customers’ processing costs by protecting downstream equipment like catalysts, engines, and fuel cells from corrosive silicon dioxide, while also increasing production yields. Finally, when customers want to reliably meet emission limits for mercury or dioxins, they turn to us for our reliable products, commitment to quality and supply, and world-class technical support to help enable their continuous and safe operation.

We are a pioneer in innovative activated carbon applications. Since we began producing activated carbon more than 100 years ago, we have continued to expand our product offerings to meet evolving customer demands. Offering the broadest product portfolio in the industry, we have the capability to produce activated carbon from a variety of raw materials in ISO 9001-certified plants across the globe. In addition to offering high quality activated carbon products for many gas and air purification applications, we also offer many important services including:

- Basic design calculations
- Evaluation of anticipated activated carbon needs
- On-site carbon application support
- Reactivation
- Rental filters
- Sampling for testing and analysis
- Spent product disposal and activated carbon exchanges
Air purification
Most manufacturing plants are required to restrict airborne emissions of harmful or odorous compounds. Activated carbon air-treatment systems are among the most effective technologies available for purifying both organic and inorganic compounds. Indoor environments are the most common application for activated carbon air purification systems. From airports, to offices, to home settings, exposure to volatile organic compounds are a serious health concern. Our field proven activated carbon products offer customers peace of mind with the confidence they are breathing clean air.

Biogas
Gas purity is a critical consideration driving biogas producer profitability. Removing compounds such as Hydrogen Sulfide (H₂S), Volatile Organic Compounds (VOCs), and siloxanes is critical for the protection of downstream equipment such as engines, membranes, and fuel cells. Strict limits on biomethane quality used for electricity generation and vehicle fuel also require a high degree of gas purity. Our diverse portfolio of activated carbon products specifically designed for the removal of challenging impurities makes us the partner of choice for biogas producers who require the lowest cost of impurity removed.

Fruit storage
Carbon dioxide and ethylene need to be controlled in fruit storage facilities to prevent premature ripening and decay. Scrubber systems filled with specialized activated carbons are used to moderate carbon dioxide and ethylene levels to ensure prolonged freshness of different types of fruits so that they can be shipped worldwide and sold year round. We have developed pelleted activated carbons specifically designed to optimize fruit storage scrubbing systems to provide desired carbon dioxide and ethylene removal.

Mercury removal
Mercury is a trace element present in natural gas and coal. Mercury is harmful to the environment as well as to process and transport equipment. Flue gas from coal fired utilities, industrial boilers, and cement kilns can contain high concentrations of mercury, which must be removed to meet emission standards in many regions including North America. We offer a range of uniquely designed Powdered Activated Carbon (PAC) and Granular Activated Carbon (GAC) products which have been proven effective for mercury removal.
**Odor control**
Sulfur and VOCs cause significant odor challenges when treating waste water. Activated carbon has long been used as a cost-effective technology for treating odorous impurities including H₂S, mercaptans, and VOCs. We offer a diverse portfolio of high performance activated carbons with our unique non-impregnated technology that catalytically removes sulfur compounds.

**Personal protection**
Exposure to toxic or harmful gases is a concern for both military and industrial personnel. These individuals can be protected by using air filters containing high performance specialty grades of activated carbon. We have developed impregnated activated carbon products that utilize both physical and chemical adsorption to meet strict international standards for both military and industrial respirator applications.

**Pressure swing adsorption**
Pressure swing adsorption is a technology used for the separation of gasses based on their molecular characteristics and affinity for adsorbents such as activated carbon. We manufacture regenerated activated carbons for this application with an optimized pore structure, making them highly efficient and ideally suited for adsorbing gasses.

**Solvent recovery**
Organic solvents are used in various industries and eventually evaporate into the air. These solvent vapors can be economically recovered by high performance, activated carbon-based recycling systems which enable adsorption and then desorption of desired solvents. In order to operate a solvent recovery system at peak performance, a pelletized activated carbon combining superior hardness, superb adsorption characteristics, low density and dust should be used. We have developed a unique platform of SORBONORIT® activated carbon products to meet the wide range of customer demands in this application.

**Vapor recovery**
Hydrocarbon vapor recovery units (VRUs) are designed for vapor control of gasoline at bulk storage and unloading facilities. We offer a pelletized carbon with a pore structure used for the adsorption and desorption of gasoline. By combining high gasoline adsorption characteristics with excellent hardness, low density and low dust levels, this activated carbon grade offers a long service life.
Founded in 1918, Cabot Norit Activated Carbon is the world's largest and most experienced producer of activated carbon. Our products are used to remove pollutants, contaminants and other impurities from water, air, food, beverages, pharmaceutical products and many other liquids and gases in an efficient and cost-effective manner. In addition to our unparalleled product portfolio, we offer a full range of activated carbon services including rental systems, carbon reactivation, bulk delivery and change-out, carbon evaluation, as well as technical service and support, to help our customers meet their specific purification needs. Our worldwide sales and service support network as well as our five activated carbon plants, which also reanimate carbon, have you covered whether you have one operation or many facilities around the globe.

CABOT
PURIFICATION FOR LIVING
The data and conclusions contained herein are based on work believed to be reliable, however, Cabot cannot and does not guarantee that similar results and/or conclusions will be obtained by others. This information is provided as a convenience and for informational purposes only. No guarantee or warranty as to this information, or any product to which it relates, is given or implied. This information may contain inaccuracies, errors or omissions and Cabot DISCLAIMS ALL WARRANTIES EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AS TO (i) SUCH INFORMATION, (ii) ANY PRODUCT OR (iii) INTELLECTUAL PROPERTY INFRINGEMENT. In no event is Cabot responsible for, and Cabot does not accept and hereby disclaims liability for, any damages whatsoever in connection with the use of or reliance on this information or any product to which it relates.

©2017 Cabot Corporation. All rights reserved worldwide.