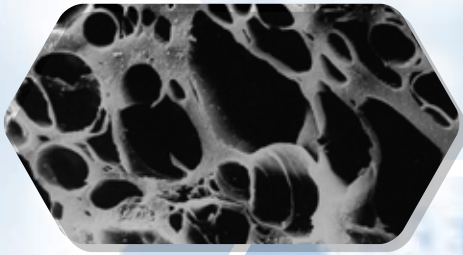




Comply With MACT Regulations Sustainably & Economically with EcoPAC-S™

Internationally Patented Process.

EcoPAC-S is a patented solution for meeting the Environmental Protection Agency's national emissions standards for hazardous air pollutants known as Maximum Achievable Control Technology regulations ("MACT").



Developed by EcoCarbon Innovations Inc. ("ECI") in part with funding and assistance from the Department of Energy, the National Science Foundation, and the Environmental Protection Agency, EcoPAC-S is the only powdered activated carbon that is fabricated using renewable energy and carbon feedstock. ECI manufactures its EcoPAC-S from carbon derived from tires using a patented process developed over the last ten years. EcoPAC-S is a highly effective activated carbon for vapor phase mercury removal.

Triple Green™ and Cost Effective.

We recognize our customers' need to attain reliable, low cost compliance in an environmentally effective manner. As a result, ECI's efforts have been focused on producing a mercury sorbent which leads the market in terms of cost effectiveness and environmental responsibility.

EcoPAC-S is the only offering in the market with the following Triple Green™ features:

- manufactured with recycled, subsidized, and renewable feedstock;
- manufactured sustainably using recycled syngas (produced by the recycling process); and,
- manufactured in an environmentally friendly manner and have a greenhouse gas footprint much smaller than ECI's competitors.

Sulfur Enriched by Design for Greater Performance.

Our carbon is produced from scrap tires using a process called pyrolysis - the thermal decomposition of tires in an oxygen free environment - which breaks tires down into oil, carbon ("PyroBlack") and high energy syngas. Steel is also recovered. Our patented technology causes the sulfur used for the vulcanization of tire rubber to be uniformly distributed throughout our PyroBlack pore structure. This sulfur is known to have a strong affinity for mercury, and its concentration is further increased during the activation of PyroBlack into EcoPAC-S. This results in a sorbent which possesses high mercury removal efficiency, due to its extensive surface area and to the formation of mercury sulfur species on the carbon surface. EcoPAC-S effectiveness does not deteriorate at high temperatures as can occur with other impregnated activated carbons. Tested by URS Corporation and the US Department of Energy Environmental and Energy Research Center, located at the University of North Dakota, EcoPAC-S performance was found to be excellent, exceeding that of a leading commercial powdered activated carbon.



Uses

- EcoPAC-S is a free flowing powdered activated carbon (“PAC”) with minimal caking tendencies for use with dry or wet injection systems.
- EcoPAC-S has been designed for mercury control at power plants using all types of coal. It has been shown that lower injection rates of PAC in relation to flue gas mercury control will be required for higher chlorine content coals, or where boiler chemical pretreatment with chlorine or bromine salts are used, and where trona injection is in use for flue gas conditioning where the coal is high in sulfur.
- EcoPAC-S’ sulfur enrichment improves its mercury-sorption capacity and kinetics, which are critical in challenging mercury-control environments. Pilot testing has shown that EcoPAC-S performs better than other leading mercury sorbents under certain conditions. Of course the removal of coal-bound mercury in flue gases is strongly affected by the choice of coal, the plant’s configuration and emission control technologies, etc. Visit our website for a discussion of how mercury arises and is impacted by the various processes from boiler to flue.
- No PAC supplier can predict exact PAC injection rates given every client’s unique set of coal choices, plant configuration and exiting emission control technologies. Full scale testing of our EcoPAC-S product, or any other PAC, is the only way to truly determine a plant’s mercury sorbent needs and mercury control costs.

Rapid Plant Development - North America Wide Footprint

The scalability of our plants is such that they can be built quickly and close to our client base. Our next plants will be located in New Jersey, Texas and Colorado. Further, preliminary siting work has already been completed on an additional fifteen locations across North America with proximity to all major transportation corridors. These locations will ensure local supply, local recycling and jobs in the vicinity of our clients, in contrast to some of our competitors’ facilities which need to be located near coal and/or lignite mines to minimize feedstock transportation costs.



Unlike a typical carbon activation plant, our plants can be built within nine months and are scalable to ensure that they do not create short term oversupplies in their local markets.

Not Just A Sorbent Company

In addition to EcoPAC-S, ECI also manufactures tire-pyrolysis oil (“PyroOil”) from the recycling of tire rubber. PyroOil is a high-value oilfield chemical with demonstrated enhancing capabilities in the areas of viscosity, API gravity and removal of paraffin and asphaltene deposits. Its uses include enhanced oil recovery; increased heavy oil flow in pipelines; and, removal of built-up paraffin and asphaltene deposits in flow lines, as well as tanks and transport vessel bottoms.



EcoCarbon Innovations, Inc.
500 West Putnam Avenue
Greenwich, Connecticut 06830, USA

Tel: +1 203-637-1083

Fax: +1 203-698-1097

Email: abedos@ecocarboninnovations.com