

Better living through carbon

Innovative, customised activated carbon solutions





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The power and versatility of purification and energy technologies based on activated carbon have proved their worth in myriad applications. Harnessing the full potential of these technologies demands wide-ranging yet detailed technical expertise, a capacity for innovation, focused and well-funded R&D and a thorough understanding of the demands and constraints under which customers worldwide operate. These qualities have made Haycarb one of the world's leading manufacturers of activated carbon, capable of supplying the needs of any customer, anywhere in the world, no matter how specialized or unusual those needs may be.

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The strength to to deliver quality

Haycarb is one of the world's leading producers of coconut shell activated carbon, accounting for over 15 percent (25,000 MT per annum) of world sales by volume. Our operation is spread across five continents, with production facilities in Indonesia, Sri Lanka and Thailand and a worldwide network of subsidiaries, distributors and agents, including marketing subsidiaries in Australia, the USA, the UK and Thailand.

Haycarb is committed to innovation, customer support and quality. Innovation, implementation and review form a constant cycle as we strive to improve product quality, process efficiency, energy conservation, reliability and usefulness to our customers. ISO and NSF certifications and REACH compliance reflect our unwavering commitment to stringent quality and compliance standards.

The breadth and depth of our product range, born of R&D and engineering expertise, is backed by rigorous quality assurance, global customer service, logistics capabilities and regeneration services that complete the loop by collecting and recycling or disposing of used or spent carbon safely.



1,500 shades of black

Standard, surface treated and impregnated, in granules, powders and pellets. Activity ranging from 15 to 75 butane activity. The Haycarb range reflects the multitude of applications in which activated carbon is put to work – in many fields, such as air and water purification, gold recovery, gas treatment and storage, decolourization and energy storage. That's why our standard product range contains over 1,500 items, each tailored to a well-defined set of requirements.

And that's only where we begin. Our specialty is developing new solutions or customizing existing ones to better meet current and new requirements – whatever the industry. This innovative spirit has enabled us to move beyond the traditional applications – purification and separation – to new areas, such as gas and energy storage. We prime the pump of innovation through continuous investment in and development of people, equipment, systems and processes.



Pushing the envelope

Haycarb is not afraid to venture into new product fields, even those that involve the most stringent standards of purity, controlled performance, adsorptive capacity and other parameters. As a result, we now offer products for use in such highly specialized, performance-critical areas as respirator technology, electronics, electrical energy storage, gas storage and sensitive filtration systems that use activated carbon, such as reverse osmosis.





our products

Haycarb carbons offer the best flow characteristics, purity, low dust, resistance to attrition and adsorption capacity across our range of products.

○ Water

The range covers all forms of water treatment from dechlorination and the removal of organic matter from drinking water to the removal of phenols, oil and toxic materials from boiler condensate and wastewater. This range also includes silver impregnated carbon for bacteriostatic filters and ultrapure carbon for high-end applications.

○ Air & Vapor

The spectrum of applications for this product category covers inlet and exhaust air purification in various applications and industries: flue- gas treatment, acid gas treatment, cabin air purification in vehicles, gas masks and protective equipment for industrial and military use.

○ Petroleum & Gas

The range covers natural gas purification (pollutants such as mercury and mercaptan) and the filtration of pollutants (such as nitrogen oxides, sulfur dioxide, volatile organic compounds and heavy metals) released during petroleum by-product refining. In addition, we supply carbon for storage of natural gas (Adsorbed Natural Gas - ANG).

○ Gold

Haycarb has attained premium brand status in this market due to the superior performance of its products in terms of gold adsorption capacity (K value) and rate of adsorption (R value). Our product features ensure minimum breakdown of carbon in the circuit and, in turn, the loss of gold and operational delays due to screen blanking. We support our activated carbon supply with all application-related testing required for carbon selection.

○ Food & Beverage

Haycarb range of carbons is used for decolourization of sugars, sweeteners, wines, edible oils, other consumables and alcohol and glycerin purification. In addition we supply activated carbon for applications such as tea and coffee decaffeination, carbon dioxide purification and inlet water treatment in beverage industry.

○ Energy

Haycarb activated carbon products are used in the electrodes of ultra capacitors and batteries for storage of electrical energy. Haycarb carbon is a preferred electrode material due to its very high surface area, pore size, particle size distribution, purity and surface chemistry that ensures high capacitance, longer cycle life and electrode stability.

○ Chemicals

Haycarb activated carbon is used in recovering solvents from varied industries such as paint manufacture to high speed printing. The range also includes carbons specially manufactured for catalyst support applications that reduce chemical requirements and result in efficient conversion of reactants into products.





Green Carbon: an industry first

It may sound like a contradiction in terms, but Haycarb is proud to present the world's first and only green carbon-product range, NeutroCarb. Manufactured using our award-winning production process, which emphasizes energy conservation and effective waste management and at every stage from production through delivery, the NeutroCarb range sets a green benchmark for the activated carbon industry.

The coconut shell charcoal raw material for NeutroCarb is prepared by a patented, mechanised process that is both pollution-free and carbon-neutral. Gases and heat from the process are recycled to generate electricity,

which is supplied to the national grid. This doubles our green advantage, eliminating the release of methane into the atmosphere which occurs in traditional charcoaling methods and reducing the use of fossil fuels in electricity generation.

The NeutroCarb process won the Sri Lanka National Science Award in 2007. It has been approved and registered with the United Nations Framework Convention on Climate Change (UNFCCC), earning Haycarb tradable carbon credits under the Kyoto protocol.

Regeneration and renewal

Regeneration reduces waste and industrial operating costs by eliminating the need to incinerate spent carbon or dispose of it in landfills. Haycarb's regeneration systems process spent carbon from a wide range of industries, offering very high efficiency and restoring activated carbon to a near virgin state without loss of activity or any other essential property. Our regeneration systems are equipped

with closed-loop treatment processes that ensure no hazardous chemicals or gases are released to the environment unless converted to a benign state. We offer custom-designed plants for onsite regeneration, and offsite where applicable at our reactivation complex.



Specialized services to match our product range

The comprehensive suite of Haycarb services includes testing, regeneration and engineering support as well as the creation of environmental and operational solutions. Our technical support teams are spearheaded by specialists in a multiplicity of disciplines, with capabilities unmatched in the industry. Together with our R&D and engineering capabilities, they enable us to design, implement and support state-of-the-art purification and regeneration systems, upgrade existing systems, manage facilities and train staff for our customers around the world.

- **Testing, regeneration and engineering support**
- **Environmental and operational solutions.**
- **Technical support**
- **Upgrading existing systems**
- **Managing installed facilities**
- **Staff training**



Marketing Offices



Australia, New Zealand & PNG
Haycarb Holdings (Australia) Pty Ltd., Victoria

Sri Lanka
Haycarb PLC, Colombo

Europe & United Kingdom
Eurocarb Products Ltd., Bristol

Thailand
Carbokarn Co. Ltd., Bangkok

Indonesia
PT Mapalus Makawanua CI, Bitung

USA
Haymark Inc., Texas

Packaging

Standard packaging is designed primarily to prevent deterioration of accurately graded granules and preclude the adsorption of moisture or atmospheric contaminants. Other packaging criteria can be accommodated on request.

Bulk Bag Nett. 500 Kg
Sacks Nett. 25 Kg

Dealer sticker/stamp here

DISCLAIMER

Haycarb is not liable for infringement of patents by any party based on any statements made herein.



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