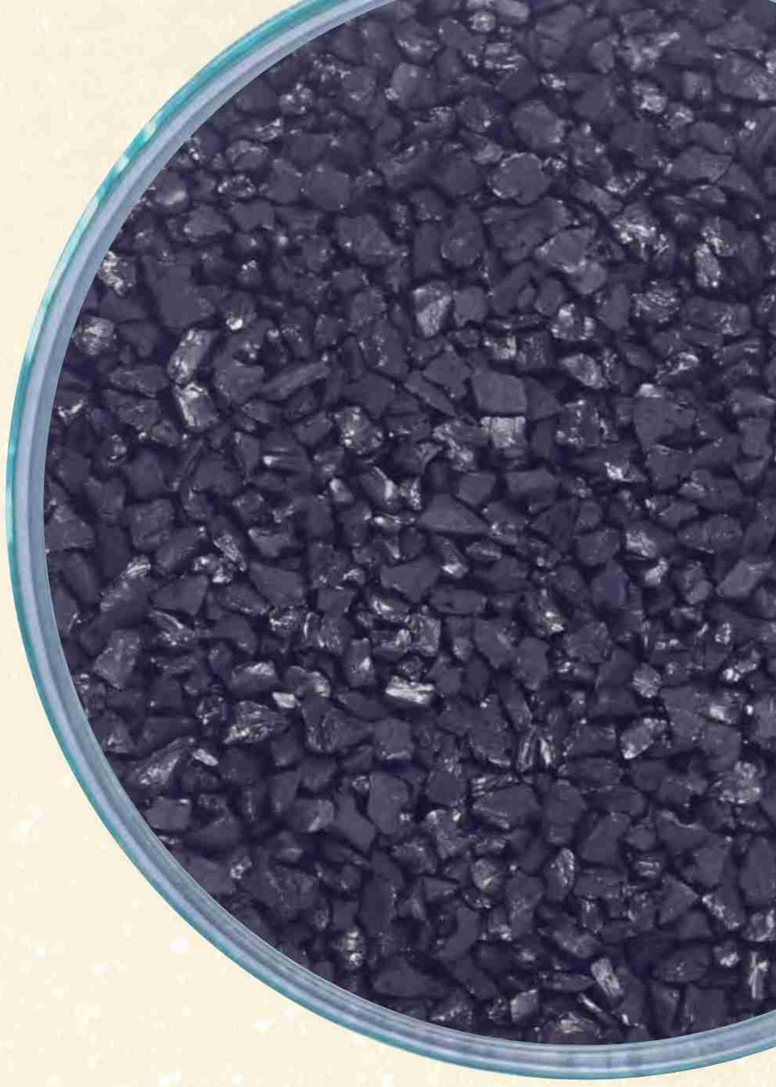
Activated Carbon for

GOLD RECOVERY

Pioneers in supplying activated carbon to mines with 50 years of experience and unmatched product quality in the industry

HAYCARB

Activated carbon solutions



Our journey began as the leading supplier of activated carbon to gold mines, marked by a significant consignment to a mine in Nevada in the late 1970s. This era coincided with the gold mining industry's transition from environmentally harmful chemical extraction to sustainable and responsible mining practices. Despite being in its early stages, Haycarb excelled in producing technologically superior activated carbon, setting a benchmark for the gold mining sector.

Haycarb offers a premium range of coconut shell-based activated carbons specially processed with optimal adsorption characteristics for gold recovery applications. Our products are manufactured under carefully controlled kiln conditions and post-activation processes to ensure effective and efficient adsorption.

From the northernmost parts of the Americas to Tierra del Fuego, from Scandinavia to Africa, and from central asia across Australasia, Haycarb provides mines with superior carbons.

TECHNICAL INFORMATION

Parameter	>45 CTC	>50 CTC	>55 CTC	>60 CTC	Test Method
Attrition* %	max: 2	max: 2	max: 2	max: 2	AARL
Hardness number	min 99	min 99	min 99	min 98	ASTM D3802
Platelet content* (% by wt)	max: 3	max: 3	max: 3	max: 3	AARL

*Products can be customized for specific requirements.

THREE MAIN PROCESSES IN GOLD MINING:

- Carbon in Pulp (CIP)
- Carbon in Leach (CIL)
- Carbon in Column (CIC) or Heap Leach

KEY PRODUCT FEATURES

- Intrinsic hardness
- High density
- Low platelet content
- Precise particle size distribution
- Excellent abrasion resistance: Reduces tail losses in the circuit due to attrition and abrasion.
- Enhanced gold adsorption kinetics (R-value & K-value)
- Low dust content

Activity level	Ideal mining application	Key features
>45 CTC	This grade is recommended for gold processing applications, especially in high attrition scenarios or when treating hard ore types.	This grade is manufactured with superior hardness and low platelet content, ensuring minimal attrition loss with reliable gold loading performance.
>50 CTC	This grade offers an optimal balance between hardness, attrition resistance, and adsorption kinetics, making it ideal for most straightforward CIP/CIL gold processing applications.	Engineered for superior hardness and low platelet content, this carbon grade minimizes attrition loss and provides a consistently high gold loading capacity, making it the most versatile carbon choice for gold mines.
>55 CTC	Specially manufactured for mines with high gold grades and elevated concentrations of competing metals, this grade is also ideal for ores with increased preg-robbing characteristics.	This grade offers superior hardness, low platelet content and larger surface area that ensures excellent gold adsorption characteristics making it the preferred carbon choice for most gold mines.
>60 CTC	This grade is recommended for gold processing applications that involve ores with high gold and silver head grades and significant base metal content. It is also suitable for circuits handling highly preg-robbing ores and use preg-robbing suppressants. Additionally, it is ideal for processes that require rapid adsorption kinetics.	As Haycarb's highest activity grade, it provides exceptional gold loading capacity (K-value) and enhanced adsorption kinetics (R-value). The properties of this grade ensure excellent gold recovery, minimal mechanical attrition, and efficient desorption during elution.

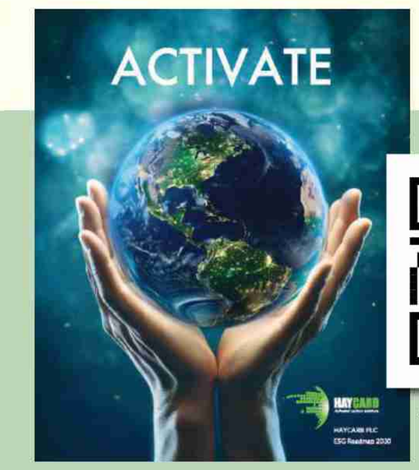
Note: The above are general recommendations. Haycarb offers a wide range of carbon grades with varied specifications to meet the unique needs of the gold mining industry. Please note that the product grade names may vary by region, while the performance and activity level of our products remain consistent globally. Please contact us to discuss your specific process plant requirements so that we can recommend the optimal product for your application.

TESTING & CARBON SELECTION

Haycarb's research and development laboratories in Sri Lanka, along with its overseas subsidiaries, are fully-equipped to perform standard activated carbon testing and address any specialized product or application-related testing needs. We offer in-house testing services for circuit materials such as loaded, barren, eluted, and regenerated carbon compared to fresh carbon.

Haycarb offers the following services for gold adsorption testing:

- Gold activity assessment
- Loading capacity evaluation
- Adsorption rate analysis
- Measurement of soft particle and platelet percentages
- Hardness testing
- Analysis of spent carbon
- Elemental analysis
- Expertise from our in-house metallurgist



'ACTIVATE' Haycarb's ESG Roadmap 2030

SUSTAINABILITY AT HAYCARB

Our environmentally responsible manufacturing processes and commitment to sustainability are at the heart of our operations. Haycarb's activated carbon solutions not only meet the current needs but are designed with the future in mind.

CERTIFICATIONS AND COMPLIANCE

All Haycarb products are rigorously tested and certified by international standards for material requirements, ensuring our commitment to safety and quality. Haycarb PLC is ISO 9001 - 2008 & ISO 14001 - 2015 certified.

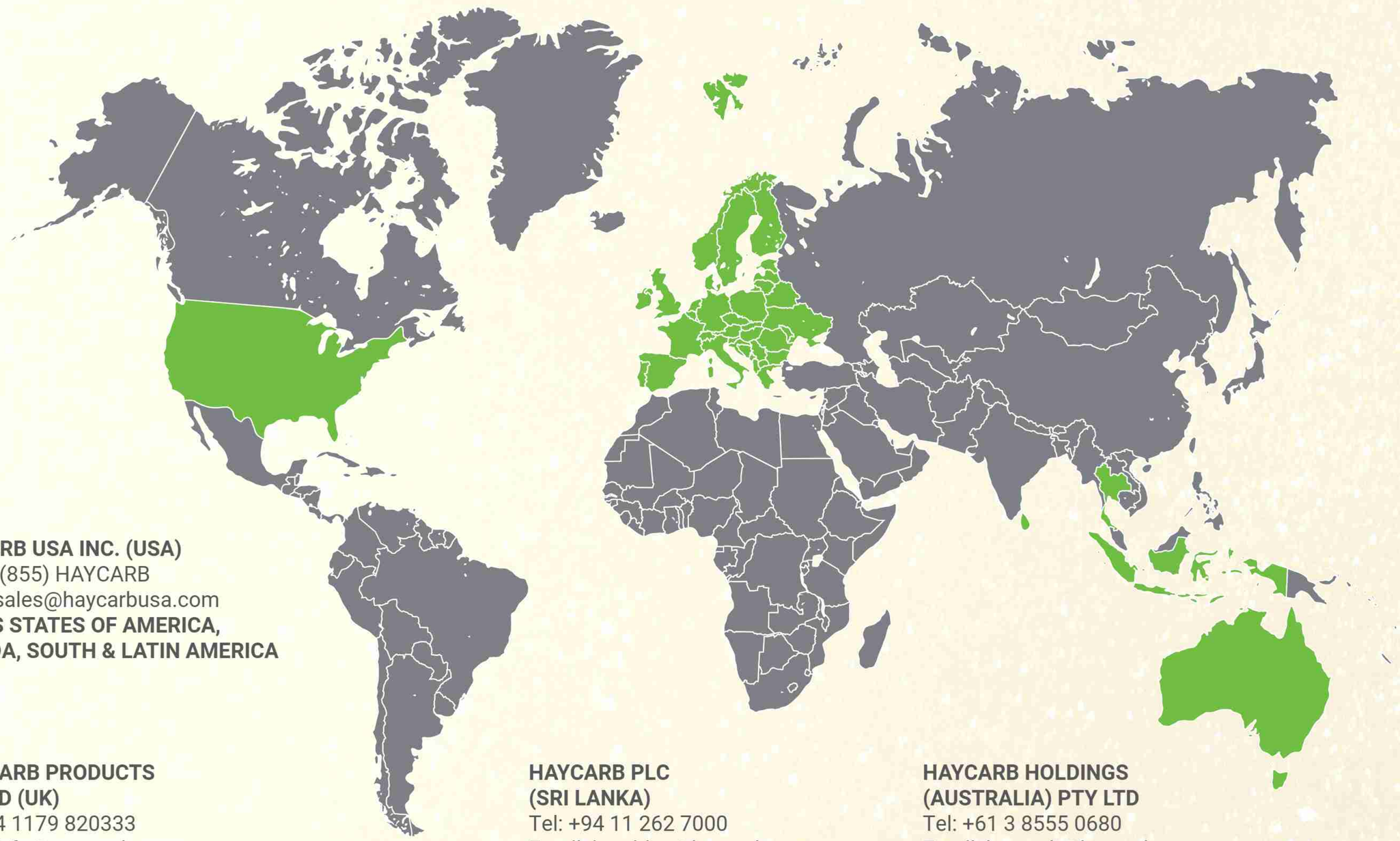
PACKAGING

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

BULK BAG - Net. 500/550 kg

SACKS - Net. 25 kg

CONTACT HAYCARB PLC



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