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各位

SECカーボン株式会社

「Newsweek」(International版)および「THE WORLDFOLIO」(海外メディア)に当社の製品紹介・社長インタビューが掲載されました。

「Newsweek」(International版2023年10月27日号)、および英国通信社「THE WORLDFOLIO」に、当社製品の紹介記事・社長インタビューが掲載されました。

THE WORLDFOLIOでは、「Hidden Champions:’ Invisible Yet Essential to Global Industry」(隠れた優良企業:日頃見ることはないが世界の産業にとって不可欠)をテーマに、社長の中島が今後の取組等を紹介しています。

## 【THE WORLDFOLIO】

2023/11/02 17:08

The Worldfolio: From Kyoto to the world

Thursday, Nov 2, 2023

32 ↑+3.24 Hong Kong: Hang Seng 17,307.88 ↑+206.1 Singapore: Straits Times 3,14 ↑+0.006 DJIA 21,18 ↓-0.02

JAPAN

[MANUFACTURING/MATERIAL SCIENCE/ASIA-PACIFIC/JAPAN/KYOTO/BATTERY TECHNOLOGY/STEEL/IRON/MIXING](#)

### From Kyoto to the world

Interview - October 25, 2023

Since its founding in 1934, SEC Carbon has consistently led the way in developing and producing top-quality graphite products. Today, as a vital contributor to carbon neutrality efforts, the company offers a range of innovative products that play a pivotal role in reducing CO2 emissions and advancing sustainability.



NAKAJIMA KOH, PRESIDENT OF SEC CARBON, LIMITED  
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Japan is at a very exciting time for manufacturing. On one hand, we have had major supply chain disruptions in the last three years, caused by the COVID-19 pandemic as well as tension from the China-US decoupling situation. As a result, we are seeing many multinational groups try to diversify their supply chains with a focus on reliability. This is where Japan can enter; a country known for decades of high reliability, trustworthiness, and short lead times when it comes to production. Now, with a depreciated JPY, we believe there's never been a more opportune moment for Japanese manufacturers to meet the pressing needs of this macroeconomic environment. Do you agree with this premise, and what, in your opinion, are the strengths of Japanese manufacturers that set them apart from regional competitors?

Regarding the decoupling situation between the US and China, I perceive a shift in the tide. The supply chain is now more diversified, no longer solely centralized in China. Despite this, Japanese companies have not yet witnessed tangible effects. As a result, we are cautiously observing the situation. Moreover, the political conflict between Ukraine and Russia has had a notable impact on our business, as global demand has shifted away from Russian cathode blocks, leading to increased orders for our products.

日本を含む 59 カ国、約 4,600 万人以上の読者数を持つビジネス週刊誌「Newsweek」および同雑誌 Web ページ（アーカイブ）に、当社製品の紹介記事が掲載されております。

【Newsweek】（International 版 2023 年 10 月 27 日号）



## With the pride of carbon

To realize carbon neutrality, our products are widely contributing to various industries.

Since its founding in 1934, SEC Carbon has consistently led the way in developing and producing top-quality graphite products. Today, as a vital contributor to carbon neutrality efforts, the company offers a range of innovative products that play a pivotal role in reducing CO<sub>2</sub> emissions and advancing sustainability.

This includes graphite electrodes for electric furnaces, offering substantial reductions in emissions compared to traditional blast furnaces, and SK-B cathode blocks crucial for aluminum production, helping to reduce the weight of automobiles. The company also specializes in Carbon & Graphite specialty products and Fine Powder, essential components and battery materials for electric vehicles.

**Carbon & Graphite Specialties**

These Carbon & Graphite specialty products have applications across various industrial sectors, including chemical, electrochemical, machinery, and metallurgy, and can be used independently or as composite materials with resins and metals. SEC Carbon excels in precision machining, utilizing large and long-sized graphitized blocks manufactured through extrusion forming. These products possess outstanding heat and chemical resistance plus electrical conductivity, making them ideal for use in molten salt electrolysis electrodes. The resultant production of lightweight and robust metals like magnesium and titanium, used in portable devices, automobiles, and aircraft, contributes to weight reduction and fuel efficiency. Continuous refinement of product grades and exploration of new product development taps into new markets and attracts new customers.

The use of Fine Powder, an exceptionally pure and crystalline graphite powder, includes sliding materials, batteries, paints, and electrical components. These are manufactured using state-of-the-art production equipment and advanced graphitization and processing technology, ensuring unmatched stability in product quality. In addition, a diverse lineup of natural graphite and carbon powder is tailored to customer applications.

**Environmental Load**

overstated. The demand for cathode blocks used in aluminum smelting is on the rise, and SEC Carbon stands

Furthermore, as part of its dedication to achieving carbon neutrality, SEC Carbon is actively working on capturing and repurposing CO<sub>2</sub> as a valuable resource. The company plans to commercialize this groundbreaking technology and extend its use globally. In line with the call for "carbon neutrality and the realization of a decarbonized society by 2050," there is a growing demand for "CO<sub>2</sub> recycling" alongside CO<sub>2</sub> emission reduction efforts. SEC Carbon's pioneering work involves producing carbon particles from carbon dioxide using molten salt electrolysis technology, subsequently transforming them into graphite particles through heat treatment. An innovative approach to converting carbon dioxide into a valuable resource, and contributing to a more sustainable future.

**SEC CARBON**

Quality

SK-B, Graphitized Cathode Block for Aluminum Smelting

Graphite Electrodes

Carbon & Graphite Specialties

Fine Powder, High Purity Graphite Powder

Graphite Electrodes

Graphite Electrodes for steelmaking, ensuring price competitiveness. The global shift towards achieving carbon neutrality has led to a growing preference for electric furnaces, which can reduce CO<sub>2</sub> emissions to one-fourth compared to blast furnaces, with demand for associated graphite electrodes expected to soar. SEC Carbon's legacy dates back to 1942 when it successfully commercialized a 24-inch large-diameter electrode, then the world's largest, and the company has since established unwavering trust and gained recognition for its development capabilities and quality at home and abroad. Through its premium graphite electrode, the company remains committed to making substantial contributions to energy cost reduction and productivity improvement in electric furnaces.

SEC CARBON

SK-B, Graphitized Cathode Block as the world's pioneer in the development of graphitized cathode blocks for highly efficient aluminum production. The company's consistent quality and production for over 50 years has earned the trust of aluminum smelters worldwide. The Kyoto Plant, the world's largest graphitized cathode production facility, employs a highly efficient swing production system with

SEC CARBON

Electrolysis

Heat treatment

Graphite particles

Graphite particles

Storage of renewable energy

Application for secondary batteries

CO<sub>2</sub>

Carbon particles

Graphite particles

Storage of renewable energy

Application for secondary batteries

Large and long-sized graphite block

available in a broad range of sizes and sizes from 1 to 100 micrometers. The increasing demand, particularly in the expanding EV market, has prompted a continuous expansion of production capacity. The importance of aluminum in reducing automotive weight and achieving global energy savings and carbon neutrality cannot be

ご関心のある方は、ご一読いただけますと幸いです。

「THE WORLDFOLIO」Web ページはこちら（英語）

「Newsweek」記事はこちら（英語/PDFが開きます）

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