

October 16, 2025

Nagase &amp; Co., Ltd.

Nagase-OG Colors &amp; Chemicals Co.,Ltd.

Kaihara Corporation

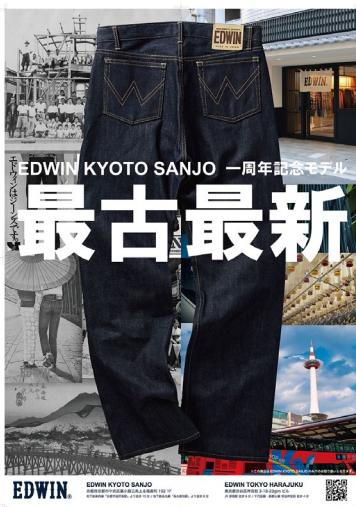
**NAGASE Group and Kaihara Commercialize EnzyBlue Recycled Indigo Dye  
 —Used for First Time in Denim Brand EDWIN's EDWIN KYOTO SANJO 1st Anniversary Model**

Nagase & Co., Ltd. (Head Office: Chiyoda-ku, Tokyo; Representative Director, President and CEO: Hiroyuki Ueshima) and the NAGASE Group's Nagase-OG Colors & Chemicals Co.,Ltd. (Head Office: Osaka City, Osaka; President and CEO Atsushi Shinoda; "ONC") have commercialized EnzyBlue, a recycled indigo dye made using waste denim fibers and used clothes. Working together with Kaihara Corporation (Head Office: Fukuyama, Hiroshima Prefecture; President: Mamoru Kaihara), a denim fabric manufacturer, EnzyBlue was chosen to be used in the EDWIN KYOTO SANJO 1st Anniversary Model jeans (launched on October 17) by EDWIN, a domestic Japanese brand which manufactures and sells denim products. This is the first case of recycled indigo dye being used in a commercial product.

\*October 7, 2025 Press Release:

[EnzyBlue, Recycled Indigo Dye Made from Waste Fibers, Developed](#)

This commercialization was made possible through collaborating with Kaihara, the only company in Japan to carry out integrated production of denim fabric, from spinning, dyeing, and weaving to finishing. The NAGASE Group innovated its dye business that has existed since its founding with biotechnology, manufacturing the recycled indigo dye EnzyBlue from waste denim fibers and used clothes. By using this dye, Kaihara can breathe new life into waste fibers that would have been incinerated, leading to the development of fabric with high added value. With EnzyBlue being used in this limited-edition model by EDWIN, all three companies have expanded the possibilities of sustainable manufacturing, and taken a step towards reducing the environmental burden of the clothing industry and bringing about a cyclical society.



EDWIN KYOTO SANJO 1st Anniversary Model



Tag certifying the use of EnzyBlue

## Comment by EDWIN

We recognize reducing the environmental burden as an important corporate mission for the clothing and denim industries. Approaching these issues from a variety of angles, such as improving every step of the manufacturing process and recovering products, as we continue to make jeans daily, we at Edwin chose to use the recycled indigo dye EnzyBlue due to recognizing it as a new technology that could solve the issues of existing synthetic indigo dyes and waste fibers. We are convinced that EnzyBlue will help solve environmental issues in the denim industry and lead to new possibilities.

EDWIN Special Site: [https://edwin.co.jp/products/concept\\_kyotosanjo\\_1st.html](https://edwin.co.jp/products/concept_kyotosanjo_1st.html) (Japanese only)

The NAGASE Group and Kaihara will contribute to cyclical manufacturing in the clothing industry as a whole through continued initiatives to develop sustainable materials and reuse waste materials, working towards reducing the environmental burden of the industry.

### Nagase & Co. Profile

- Company Name: Nagase & Co., Ltd.
- Head Office: Chiyoda-ku, Tokyo

Representative: Representative Director, President and CEO Hiroyuki Ueshima

- Business Overview: Import/export and domestic sales of chemicals, plastics, electronics materials, cosmetics and health foods
- URL: <https://www.nagase.co.jp/english/>

### Nagase-OG Colors & Chemicals Profile

- Company Name: Nagase-OG Colors & Chemicals Co.,Ltd.
- Head Office: Nishi-ku, Osaka City

Representative: President and CEO Atsushi Shinoda

- Business Overview: Sales of dyes and chemicals
- URL: <https://ognagase.co.jp/english/>

### Kaihara Profile

- Company Name: Kaihara Corporation
- Head Office: Fukuyama, Hiroshima Prefecture

Representative: President Mamoru Kaihara

- Business Overview: Integrated production (spinning, dyeing, weaving, and finishing) and sales of denim fabric
- URL: [Kaihara Co., Ltd.](https://kaihara.co.jp)

### ■Inquiries

Nagase & Co., Ltd. URL: <https://www.nagase.co.jp/english/>



NAGASE-OG COLORS &  
CHEMICALS CO., LTD.



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