

**NEWS RELEASE**

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To All Members of the Press

Refinverse Group, Inc.

Kleen-Tex, Japan

**Introducing “RENAMY”: The Industry’s First<sup>\*1</sup>****Recycled Nitrile Rubber Material****Refinverse Group and Kleen-Tex Japan to Launch “Kleen Eco Scrape” Mat in December**

Refinverse Group, Inc. (Head Office: Chiyoda-ku, Tokyo; President & CEO: Akira Ochi, hereinafter “Refinverse Group”) has strengthened its collaboration with Kleen-Tex Japan (Head Office: Kobe, Hyogo; President: Saisei Oyama, hereinafter “Kleen-Tex Japan”) to develop recycled rubber materials used in mats and related products. Together, the two companies have successfully created “RENAMY,” a new recycled material made from nitrile rubber (NBR) used in dust-control mats, marking the industry’s first<sup>\*1</sup> such achievement.

“RENAMY” will be reused by Kleen-Tex Japan as a raw material for the high-performance mat “Kleen Eco Scrape,” which will be available beginning in early December 2025. <sup>\*1</sup> Based on internal research.

**■ Background of the Development of “RENAMY” – A Recycled Rubber Material**



Refinverse Group has long pioneered horizontal recycling technologies, including the recycling of discarded carpet tiles and the resource recovery of various waste materials such as discarded fishing nets, airbags, and bird feathers.

Meanwhile, Kleen-Tex Japan, a company with a strong global track record in manufacturing and selling commercial mats, has provided high-performance mat products for many years. However, due to the composite structure of fibers and rubber, separating and recycling the rubber portion of dust-control mats has been considered extremely difficult. As a result, approximately 800 tons of mats were disposed of annually<sup>\*2</sup>, contributing to environmental impact.

To address this issue, Kleen-Tex Japan sought to develop more environmentally friendly products and reduce CO<sub>2</sub> emissions, strengthening its partnership with Refinverse Group. In May 2025, the companies officially launched a recycling project, beginning with the development of a reusable protective sheet, and have since accelerated efforts toward full-scale mat recycling. The development of “RENAMY” marks a major step forward in this initiative. <sup>\*2</sup> According to Kleen-Tex Japan.

### ■ About “RENAMY”

“RENAMY” is the industry’s first<sup>\*1</sup> recycled material created by separating the fibers and rubber components of dust-control mats and material-recycling the rubber portion (nitrile rubber).

Through this process, nitrile rubber that was previously disposed of can now be reused as a new resource. Compared with other recycled rubber materials, RENAMY enables the use of a larger proportion of recycled content, further reducing environmental impact and significantly contributing to the realization of a resource-circulating society.

Used mats are collected by Kleen-Tex Japan and transported to Refinverse Group’s RIVIC plant in Futtsu City, Chiba, where they are recycled. The recovered material is then returned to Kleen-Tex Japan as a raw material and reborn as the high-performance mat “Kleen Eco Scrape.”

The companies also plan to leverage RENAMY’s characteristics to expand its use in other rubber products, thereby reducing waste, lowering CO<sub>2</sub> emissions,

and supporting corporate sustainability initiatives.

### ■ Launch of “Kleen Eco Scrape,” a Mat Made with Recycled Materials

Kleen-Tex Japan will begin selling “Kleen Eco Scrape”—an outdoor mat for the consumer (outright purchase) market—in early December 2025.

The company also plans to roll out its existing pile-type mats using this new material to the consumer market, expanding the product lineup to better meet diverse needs.

Furthermore, Kleen-Tex Japan aims to utilize this recycled material for rental mat backing materials in the future, strengthening its commitment to developing sustainable products.

\*Note: Collection eligibility may vary depending on the condition and specifications of the product. Please contact Kleen-Tex Japan for details.

### ■ Future Outlook

The two companies will continue to accelerate their joint efforts by expanding the application of recycled materials to additional high-performance mats and related products. Moreover, they will work to increase the horizontal recycling rate of commercial mats through further technological development and the establishment of collection and recovery schemes, contributing to the realization of a circular economy.

### ■ About Refinverse Group, Inc.

“With unique perspectives and technologies, we carry wealth into the future.”

For over two decades, Refinverse Group has been committed to the principles of a circular economy, working on the recycling and development of a wide range of materials. Our operations include recovering and recycling tile carpets—widely discarded in offices and facilities—into Refine Powder, a recycled material enabling horizontal recycling; transforming discarded fishing nets and airbags into REAMIDE®, a high-quality recycled nylon pellet; and, since 2023, developing ReFEZER®, a new biomaterial made from bird feathers. We continue to expand our business and research to realize a circular society through the power of sustainable innovation.

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