

News Release (October 24, 2024)

Toyo Seikan's Coca-Cola® 500 ml 100% r-PET Lightweight Bottle and Ultra-Lightweight Aluminum Beverage Can have won at the 48th Kinoshita Prize Awards

**- Contributing to further reduction of environmental impact
through innovative lightweighting technology -**

Toyo Seikan Co., Ltd. ("Toyo Seikan"; President: Masanori Honda), a consolidated subsidiary of Toyo Seikan Group Holdings, Ltd. (Tokyo 5901; President: Ichio Otsuka), has been recognized at the Japan Packaging Institute 48th Kinoshita Prize Awards¹ in the Improvement & Rationalization Category² and with the Packaging Engineering Award³. These were presented for Toyo Seikan's collaborative efforts with Coca-Cola®⁴ (Coca-Cola(Japan)Company, Limited.; Headquarters: Shibuya-ku, Tokyo; President and CEO: Murat Ozgel) for the Coca-Cola® 500 ml 100% r-PET Lightweight Bottle and for its Ultra-Lightweight Aluminum Beverage Can. The developers of these products were presented with commemorative items at an awards ceremony during the TOKYO PACK 2024 event on October 23rd. Both products make significant contributions to reducing environmental impact through technological innovation that achieve lighter weights. Moving forward, Toyo Seikan will continue to contribute to environmental conservation and the realization of a sustainable society through the development and provision of more such products and services.



<Left Photo> Commemorative photo of the presentation of the award for the Coca-Cola® 500 ml 100% r-PET Lightweight Bottle. From left to right: Rika Nagaharu from Toyo Seikan Technical Center. Yui Kato, Technical, Innovation & Supply Chain Technical Innovation – Package Manager at Coca-Cola(Japan)Company, Limited.

<Right Photo> Commemorative photo of the presentation of the award for the Ultra-Lightweight Aluminum Beverage Can. Takeshi Murase, Deputy Supervisor at Toyo Seikan Technical Center.

¹ The Kinoshita Prize Award was established by the Japan Packaging Institute in commemoration of the late Kinoshita Matasaburo, the second president of the association, for his long-standing

contributions to the packaging industry. The award is presented annually to individuals or organizations who have made significant achievements in three categories: (a) Outstanding achievements in packaging research and development, (b) Outstanding achievements in packaging improvement and rationalization, and (c) Outstanding achievements in creating new fields in packaging.

² This is one of the three categories of the Kinoshita Prize Awards and is presented to those who have made notable achievements in packaging improvement and rationalization.

³ This award is presented for outstanding achievements in packaging that do not fall within the defined categories of the Kinoshita Prize Awards.

⁴ Coca-Cola is a registered trademark of The Coca-Cola Company.

■ The award-winning products :

- (1) **Coca-Cola® 500 ml 100% r-PET Lightweight Bottle**
(received award in the Improvement & Rationalization Category)

【Product Overview】

In this product, the shape of the preform—an intermediate stage—and the petaloid shape of the bottom of the bottle have been modified, reducing the overall weight by 2 g (9%), from 23 g to 21 g, making the bottom lighter while maintaining the same performance and design as conventional containers. The bottle is now the lightest 500 ml PET bottle for carbonated beverages in Japan.⁵

In addition to the weight reduction, the use of 100% r-PET (recycled polyester) resin reduces resin usage by approximately 200 tons per 10 million bottles, thereby further reducing the environmental impact. The bottle still maintains the same carbon dioxide barrier properties as before, ensuring that consumers can enjoy the same great taste.



⁵ As of April 2024, according to a survey conducted by Toyo Seikan.

- (2) **Ultra-lightweight aluminum beverage can**
(awarded the Packaging Engineering Award)

【Product Overview】

This product uses an innovative technology called Compression Bottom Reform (CBR) that strengthens and reduces the weight of the bottom portion of aluminum beverage cans. Reforming the can bottom achieves high bottom pressure resistance while reducing the weight, thus contributing to decreased greenhouse gas (GHG) emissions through reduced aluminum material usage.

Through CBR, the 350 ml and 500 ml aluminum DI cans have been reduced in weight by 1.5 g (12.8%)



and 2.0 g (13.3%), respectively, making them the lightest in their respective categories in Japan.⁶ In the future, if CBR were used for all applicable aluminum beverage cans, it is estimated that GHG emissions could be reduced by approximately 40,000 tons annually.⁷

⁶ Based on the empty weight of 204SOT (stay-on-tab) cans with diameters of 350 ml and 500 ml, as of March 2024, according to a survey conducted by Toyo Seikan. The weight does not include the can lid.

⁷ Calculated based on production records using the current specifications for aluminum beverage cans at Toyo Seikan in the fiscal year 2022 and on the GHG reductions per can using CBR.

About Toyo Seikan Group Holdings, Ltd.

Toyo Seikan Group Holdings, Ltd. is a world-class comprehensive packaging manufacturer that delivers a variety of packaging containers using materials such as metal, plastic, paper, and glass. In our Long-Term Management Vision 2050, “The Future, Wrapped for All,” we set a goal to go beyond our traditional field of packaging, aiming to become a corporate group that creates new value that changes society. Founded in 1917, Toyo Seikan Group Holdings, Ltd. conducts business on a global scale, with 44 group companies in Japan and 47 overseas, and currently employs a multinational workforce of 20,000 people. For more information, please visit <https://www.tskg-hd.com/en>.

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