

**May 15, 2024**

## Sumitomo Riko Exhibits at the Automotive Engineering Exposition 2024

**- Exhibiting of EVs related product “Battery Cooling Plate” for the first time-**

Sumitomo Riko Co., Ltd (Headquarters: Nakamura-ku, Nagoya; President & CEO: Kazushi Shimizu) will exhibit at the Automotive Engineering Exposition 2024, which will be held at Pacifico Yokohama (Nishi-ku, Yokohama) from May 22 (Wed.) to 24 (Fri.) and at Aichi Sky Expo (Tokoname, Aichi) from July 17 (Wed.) to 19 (Fri.).



We will be exhibiting jointly with Sumitomo Electric Industries, Ltd. (Chuo-ku, Osaka) and Sumitomo Wiring Systems, Ltd. (Yokkaichi, Mie). Our booth will exhibit technologies and products centered on three themes: carbon neutrality, EVs, and automated driving, as initiatives to support a safe, comfortable, and green future.

At the exhibition, our Group will exhibit “Battery Cooling Plate: Cool Fit Plate,” “Heat Dissipation and Soundproofing Material: MIF<sup>®</sup>,” “Thin Film High Thermal Insulation Material: Finesulight<sup>®</sup>,” and “Automobile Window Film” as products related to EVs. Furthermore, “Driver Monitoring System” and “Light Transmitting Interior Components” will be exhibited as products related to automatic driving.

**<Outline of the exhibition>**

Exhibition Name	Automotive Engineering Exposition 2024 YOKOHAMA
Dates	Wednesday, May 22 - Friday, May 24
Venue	Pacifico Yokohama
Booth No.	282

Exhibition Name	Automotive Engineering Exposition 2024 NAGOYA
Dates	Wednesday, July 17 - Friday, July 19
Venue	Aichi Sky Expo
Booth No.	297

Exhibition Name	Automotive Engineering Exposition 2024 ONLINE
Dates	【STAGE 1】 Wednesday, May 22 - Wednesday, June 5 【STAGE 2】 Wednesday, July 10 - Wednesday, July 31

**<Exhibits>**

**>> Battery Cooling Plate: Cool Fit Plate**

**【First time on Exhibit (Patent pending)】**

This is a battery cooling product to efficiently cool the bottom of the battery (the upper side of the flow path) and furthermore to equalize the temperature of the battery. It features protrusions in the parallel flow paths, which generate vortex and agitate the fluid boundary layer, resulting in efficient cooling performance. Moreover, by placing the protrusions in the optimal locations, the cooling efficiency can be improved at any point, thereby reducing the temperature difference between different parts of the battery, which contributes to extending battery life.



Lower plate

### >> Driver Monitoring System (Seat Integrated Type)

This is a product in which our proprietary sensor is processed into a cushion shape and integrated with the seat. By acquiring data on pressure changes on the seat surface measured by the sensor, biometric information (vital data based on heartbeat component, respiration component, etc.) can be estimated. Based on the measurement data from the seat-type sensing device, the system can be linked to services such as detecting driver falling asleep or signs of fatigue, responding to abnormal situations of passengers, operation support by managers, and labor management.



### >> Thin Film High Thermal Insulation Material: Finesulight

We have applied polymer material technology to create a coating of high-insulation filler (silica aerogel) with nano-sized pores so fine that air cannot move. By coating base materials such as non-woven fabrics and molded resins with this product, higher thermal insulation properties can be achieved than in the still air. This product, which improves the heating and cooling effect of the cabin space in EVs, contributes to extending the cruising range by reducing electric power costs.



### >> Heat Dissipation and Soundproofing Material: MIF (Magnetic Induction Foaming)

This is a soundproofing urethane that combines "heat dissipation" and "soundproofing". Urethane containing heat-conductive particles is foamed and molded in a magnetic field, which connects the particles and forms a heat pathway. The heat dissipation performance is 10 to 50 times higher than that of ordinary urethane foam (according to our research). It contributes to noise and heat reduction for in-vehicle electrical equipment such as motors and eAxle.



## >> Automotive Window Film

By attaching this product to automobile glass, it provides the effects of heat shielding and UV blocking. By uniformly dispersing transparent conductive material, the film ensures both visibility while driving and a heat shielding function that absorbs heat (near-infrared rays) from the sun, thereby contributing to improved cabin comfort and reduced air-conditioning load. The product has been used in approximately 160,000 vehicles<sup>1</sup> in Southeast Asia (Malaysia).



## >> Light Transmitting Interior Components

This is a product that utilizes our originally developed light-transmissive surface skin to create an interior space. The product provides a high-quality interior under normal conditions, and when in use, the surface skin is linked to the backlight illumination, allowing the user to experience advanced illumination. It can also be used as a sensing device and as an HMI device with switches that are visible only when in use.



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<sup>1</sup> Adoption results as of February 2024

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