

May 18 2022

Sumitomo Riko to Exhibit at the Automotive Engineering Exposition Yokohama 2022

- Exhibiting products in the “Sensing” and “Thermal Management” fields relating to CASE –

Sumitomo Riko Company Limited (Headquarters: Nakamura-ku, Nagoya-shi; President & CEO: Kazushi Shimizu) will exhibit at a joint booth together with Sumitomo Electric Industries, Ltd. (Chuo-ku, Osaka-shi) and Sumitomo Wiring System, Ltd. (Yokkaichi-shi, Mie Prefecture) at the Automotive Engineering Exposition 2022 Yokohama (Yokohama Exhibition) to be held at PACIFICO Yokohama (Nishi-ku, Yokohama) from May 25 (Wed).



As the auto industry enters a period of major change, including the increase of electric vehicles (EV) and the acceleration of initiatives for “CASE*” to promote the advancement of technology for self-driving cars, Sumitomo Riko is actively engaged in the R&D of new products and materials utilizing our core competence, polymer materials technology and comprehensive evaluation technology.

At this exhibition, we will exhibit products of the Sumitomo Riko Group with a particular emphasis on “C: Connected”, “A: Autonomous” and “E: Electric”.

In the sensor field, we will exhibit a “Monilife Mobility (Driver Monitoring System)”, “Monilife Wellness (vitals sensor)” and the “Monilife Platform (cloud service)” from our Monilife series as products to contribute to “Connected” and “Autonomous”.

In the thermal management field, we plan to show the “High Performance Heat Insulating Material: Finesulight™”, “Heat Insulation for Battery Cells” and the “Fire Resistant Cover” as products to contribute to “Electric”.

* [C : Connected] [A : Autonomous] [S : Shared & Services] [E : Electric]

<Exhibition Details>

Exhibition Name	Automotive Engineering Exposition 2022 YOKOHAMA
Exhibition Dates	May 25 (Wed) – May 27 (Fri)
Exhibition Venue	Exhibition Hall, PACIFICO Yokohama
Booth No.	95
Online	https://aee.expo-info.jsae.or.jp/en/ Preopening : May 18 (Wed) – 24 (Tue) ONLINE STAGE1 : May 25 (Wed) – 31 (Tue)

<Overview of exhibited products>

C : Connected, A : Autonomous Monilife Series

>> Monilife Mobility (Driver Monitoring System)

Made into the shape of a cushion, our independently developed SR sensors are installed into the surface of the driver’s seat to detect the driver’s heart rate, breathing, body motion and other factors based on changes in pressure on the seat. The system estimates fatigue, drowsiness, signs of sudden illness and other conditions from the observed data and can connect to services such as alerting the driver, generating the driving support system or sending an external notification.



>> Monilife Wellness (Vital Signs Sensor)

Monilife Wellness was developed to monitor vital signs of people when sleeping. Its soft thin composition enables it to be easily placed on a mattress without interrupting sleep.



>> Monilife Platform (Cloud Service)

The Monilife Platform is a cloud service that stores and analyzes data on vital signs collected by the Monilife Mobility and Monilife Wellness. Using algorithms independently developed through joint research with universities, it can also estimate “sleep quality” and sleeping conditions.



Image

E : Electric

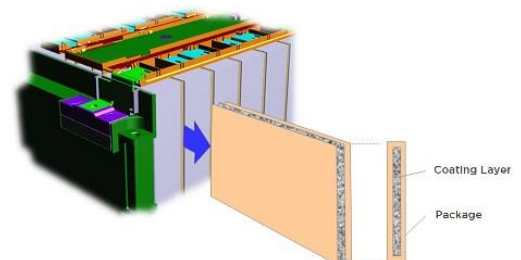
>> High Performance Heat Insulation “Finesulight™”

Utilizing polymer materials technology, we made a high-heat insulating filler (silica aerogel) containing nanopores small enough to block the passage of air, into a coating liquid. Then, by coating base materials such as non-woven fabric and molded resin, this can achieve high-heat insulation properties at a level of still air or higher. As mobility moves toward electric vehicles (EVs), all energy needs to be supplied by electricity. As such, this product increases the effectiveness of cooling and heating and contributes to extending cruising distance. In addition to use in vehicles, this has already been used with food deliveries and the transportation of COVID-19 vaccines and we anticipate that it can be used in various other fields.



>> Heat Insulation for Battery Cells

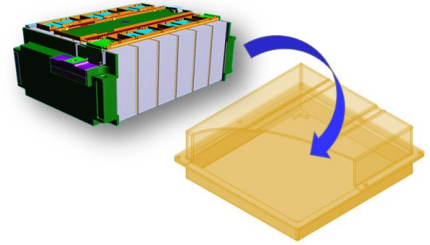
We have improved the Finesulight™ compound bonder technology and developed an insulator for lithium-ion batteries in electric vehicles (EV) which can withstand high temperatures of several hundred degrees Celsius. It suppresses heat chains from developing between adjacent cells in the case of extraordinary heat surges and avoids major incidents which can cause fires in the vehicle. We aim to optimize this insulator by making further adjustments to the insulation performance, hardness and other factors in



line with customer requirements.

>> Fire Resistant Cover (first time exhibited)

This cover contains both flame retardant and fire resistant materials that can withstand 10 minutes of flames at 1,000°C. By using this cover on batteries in EVs and other vehicles, it contributes to the safety of passengers in case of accident or fire.



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