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NEWS RELEASE

## **Decision to Enhance Production Capacity of the Mass Production Testing Facility for A-SOLiD, a Solid Electrolyte for All-Solid-State Batteries**

Mitsui Mining & Smelting Co., Ltd. (President: Takeshi Nou) is pleased to announce today that it has decided to increase the production capacity of its mass production testing facility for the solid electrolyte for all-solid-state batteries<sup>1</sup> branded as A-SOLiD.<sup>2</sup>

All-solid-state batteries are expected to be the next generation of storage batteries. Efforts to develop them are underway for a wide range of applications, including electric vehicles (EVs). A-SOLiD was created by battery material technology cultivated over many years, and we have defined this material for all-solid-state batteries. We continue to work together with customers and market partners towards the commercialization of these brand-new batteries.

We have begun our work to supply the samples of the A-SOLiD produced at the mass production testing facility. This was reported in the news release dated November 11, 2021, titled “Mitsui Kinzoku initiates supply of A-SOLiD, a solid electrolyte for all-solid-state batteries, from its mass production testing facility”. Amid the active development race working to achieve the commercialization of all-solid-state batteries for EV and other applications, multiple customers in Japan and abroad currently have increasing needs for A-SOLiD. This demand is expected to grow continuously in the future. Progress has been seen in commercialization. For example, Maxell, Ltd. achieved the commercialization of ceramic packaged all-solid-state batteries using A-SOLiD. In light of these progressive achievements, we have decided to double the production capability and performance for continuously seeking innovative values and solutions.

In accordance with Our Purpose, which states, “We promote the well-being of the world through a spirit of exploration and diverse technologies,” we are committed to identifying new unique applications for the all-solid-state batteries, including EVs, together with all parties in its endeavors to build a sustainable society.

[Outline of mass production testing building]

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## Glossary

### <sup>1</sup> All-solid-state batteries

All-solid-state batteries feature high energy density, high I/O performance, high environment resistance and other attributes, and are being developed for applications in special environments and for new power storage and electric vehicle (EV) applications. Some have already entered the practical application phase.

### <sup>2</sup> A-SOLiD

Our solid electrolyte a high lithium ion conductivity equivalent to that of organic electrolytes and is an argyrodite-type sulfide solid electrolyte, which is electrochemically stable. With this brand, it will contribute to the popularization of all-solid-state batteries.

(Reference)



Photo of argyrodite-type sulfide solid electrolyte (A-SOLiD )



A-SOLiD is produced in this mass production testing building.