

# NANOMYTE® Solid Electrolytes

## Electrolyte Materials for All Solid State Batteries

A long trusted source for custom developed materials used in lithium-ion batteries, NEI Corporation is your go-to source for commercial and custom solid electrolyte materials. Solid electrolytes conduct lithium ions at room temperature and can potentially replace conventional organic electrolytes, which are flammable and toxic, thereby drastically improving the safety of batteries. NEI is actively involved in producing different solid electrolyte materials of both oxide and sulfide-based compositions, as well as polymer-based electrolyte materials.

### List of NANOMYTE® Solid Electrolyte Materials:

Product	Product Description	Type
SSE-10	Lithium Tin Phosphorus Sulfide ( $\text{Li}_{10}\text{SnP}_2\text{S}_{12}$ ) powder	Sulfide-based
SSE-20	Solid Electrolyte Dispersion Fluid	Solvent-based
H-Polymer	PEO-based polymer electrolyte	Polymer-based
SE-50	Polymer-Ceramic composite electrolyte (solid)	Polymer-based
SE-50A	Polymer-Ceramic composite electrolyte (30% in Acetonitrile)	Polymer-based
SE-50N	Polymer-Ceramic composite electrolyte (30% in NMP)	Polymer-based

### Additional solid electrolytes available:

Material	Description	Type
LLTO	Lithium Lanthanum Titanate ( $\text{Li}_{0.34}\text{La}_{0.56}\text{TiO}_3$ )	Oxide-based
LLZO	Al-doped Lithium Lanthanum Zirconate ( $\text{Li}_{6.24}\text{La}_3\text{Zr}_2\text{Al}_{0.24}\text{O}_{11.98}$ )	Oxide-based
LLZTO	Ta-doped Lithium Lanthanum Zirconate ( $\text{Li}_{6.4}\text{La}_3\text{Zr}_{1.4}\text{Ta}_{0.6}\text{O}_{12}$ )	Oxide-based
LATP	Lithium Aluminum Titanium Phosphate ( $\text{Li}_{1.4}\text{Al}_{0.4}\text{Ti}_{1.6}(\text{PO}_4)_3$ )	Oxide-based
LPS	Lithium Phosphorus Sulfide ( $\beta\text{-Li}_3\text{PS}_4$ )	Sulfide-based
LPSClI	Lithium Phosphorus Sulfur Chloride Iodide ( $\text{Li}_6\text{PS}_5\text{Cl}_{0.9}\text{I}_{0.1}$ )	Sulfide-based

### Available for Purchase

NEI's solid electrolyte materials are available for purchase in lots of 10g, 25g, 50g and 100g (larger quantities also available upon request). All of our materials are made in-house & shipped directly to you.

Looking for a particular material or composition not listed? NEI can custom produce the solid electrolyte material composition of your choice – including oxide, sulfide, and polymer-based materials.

**Request your quote with our representative today!**

[www.neicorporation.com](http://www.neicorporation.com)

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