

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 Solid Electrolyte	Polymer-based
SE-50	Polymer-Ceramic composite Solid Electrolyte (solid)	Polymer-based
SE-50A	Polymer-Ceramic composite Solid Electrolyte (30% in Acetonitrile)	Polymer-based
SE-50N	Polymer-Ceramic composite Solid Electrolyte (30% in NMP)	Polymer-based

Additional solid electrolytes available:

Material	Description	Type
LLTO	Lithium Lanthanum Titanate ($\text{Li}_{0.34}\text{La}_{0.51}\text{TiO}_y$) [$y \sim 3$] powder	Oxide-based
LLZO	Lithium Lanthanum Zirconium Oxide ($\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$) powder	Oxide-based
LATP	Lithium Aluminum Titanium Phosphate ($\text{Li}_{1.3}\text{Al}_{0.3}\text{Ti}_{1.7}(\text{PO}_4)_3$) powder	Oxide-based
LPS	Lithium Phosphorus Sulfide (Li_3PS_4) powder	Sulfide-based
LPSCII	Lithium Phosphorus Sulfur Chloride Iodide ($\text{Li}_6\text{PS}_5\text{Cl}_{0.9}\text{I}_{0.1}$) powder	Sulfide-based

Custom Solid Electrolytes

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.

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.

Request your quote with our representative today!

www.neicorporation.com

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