

NANOMYTE® Solid Electrolytes

Electrolyte Materials for All Solid-State Batteries

Looking to revolutionize the safety & performance of your battery projects? Our advanced solid electrolytes offer a compelling alternative to traditional liquid electrolytes, potentially enabling higher energy density, improved safety, and extended battery lifespans. NEI's solid electrolyte materials are designed to address critical challenges like interfacial compatibility and long-term stability, paving the way for the development of safer, more reliable, and higher-performing batteries. Explore our selection of sulfide, oxide, phosphate, polymer, NASICON, and halide-based electrolytes, and find the perfect fit for your battery needs today!

Product	Product Description	Type
NANOMYTE® SSE-10	Lithium Tin Phosphorus Sulfide ($\text{Li}_{10}\text{SnP}_2\text{S}_{12}$)	Sulfide
"LPS"	Lithium Phosphorus Sulfide ($\beta\text{-Li}_3\text{PS}_4$)	Sulfide
"LPSCI"	Lithium Phosphorus Sulfur Chloride ($\text{Li}_6\text{PS}_5\text{Cl}$)	Sulfide
Cl-rich "LPSCI"	Chlorine-rich Lithium Phosphorus Sulfur Chloride ($\text{Li}_{5.5}\text{PS}_{4.5}\text{Cl}_{1.5}$)	Sulfide
"LPSCII"	Lithium Phosphorus Sulfur Chloride Iodide ($\text{Li}_6\text{PS}_5\text{Cl}_{0.9}\text{I}_{0.1}$)	Sulfide
NANOMYTE® SOX-10	"LLTO" – Lithium Lanthanum Titanate ($\text{Li}_{0.34}\text{La}_{0.56}\text{TiO}_3$)	Oxide
NANOMYTE® SOX-20	Fine "LLZO" – Aluminum-doped Lithium Lanthanum Zirconate ($\text{Li}_{6.24}\text{La}_3\text{Zr}_2\text{Al}_{0.24}\text{O}_{11.98}$)	Oxide
NANOMYTE® SOX-25	"LLZO" – Aluminum-doped Lithium Lanthanum Zirconate ($\text{Li}_{6.24}\text{La}_3\text{Zr}_2\text{Al}_{0.24}\text{O}_{11.98}$)	Oxide
NANOMYTE® SOX-30	Fine "LLZTO" – Tantalum-doped Lithium Lanthanum Zirconate ($\text{Li}_{6.2}\text{Al}_{0.2}\text{La}_3\text{Zr}_{1.8}\text{Ta}_{0.2}\text{O}_{12}$)	Oxide
NANOMYTE® SOX-35	"LLZTO" – Tantalum-doped Lithium Lanthanum Zirconate ($\text{Li}_{6.2}\text{Al}_{0.2}\text{La}_3\text{Zr}_{1.8}\text{Ta}_{0.2}\text{O}_{12}$)	Oxide
Nb-doped "LLZO"	Niobium-doped Lithium Lanthanum Zirconate ($\text{Li}_{6.75}\text{La}_3\text{Zr}_{1.75}\text{Nb}_{0.25}\text{O}_{12}$)	Oxide
Ga-doped "LLZO"	Gallium-doped Lithium Lanthanum Zirconate ($\text{Li}_{6.4}\text{La}_3\text{Zr}_2\text{Ga}_{0.2}\text{O}_{12}$)	Oxide
NANOMYTE® H-Polymer	PEO-based Polymer Solid Electrolyte	Polymer
NANOMYTE® SE-50	Polymer-Ceramic composite Solid Electrolyte	Polymer-Ceramic
NANOMYTE® SE-50A	Polymer-Ceramic composite Solid Electrolyte (30 wt.% in Acetonitrile)	Polymer-Ceramic
NANOMYTE® SE-50N	Polymer-Ceramic composite Solid Electrolyte (30 wt.% in NMP)	Polymer-Ceramic
NANOMYTE® PHE-10	Fine "LATP" – Lithium Aluminum Titanium Phosphate ($\text{Li}_{1.4}\text{Al}_{0.4}\text{Ti}_{1.6}(\text{PO}_4)_3$)	Phosphate
NANOMYTE® PHE-15	"LATP" – Lithium Aluminum Titanium Phosphate ($\text{Li}_{1.4}\text{Al}_{0.4}\text{Ti}_{1.6}(\text{PO}_4)_3$)	Phosphate
NANOMYTE® PHE-20	"LAGP" – Lithium Aluminum Germanium Phosphate ($\text{Li}_{1.5}\text{Al}_{0.5}\text{Ge}_{1.5}(\text{PO}_4)_3$)	Phosphate
"LICl"	Lithium Indium Chloride (Li_3InCl_6)	Halide
NANOMYTE® NAB-1000	"NATP" – Sodium Aluminum Titanium Phosphate ($\text{Na}_{1.3}\text{Al}_{0.3}\text{Ti}_{1.7}\text{P}_3\text{O}_{12}$)	NASICON
NANOMYTE® SSE-20	Solid Electrolyte Dispersion Fluid	n/a

Available for Purchase

NEI's solid electrolyte materials are available for purchase from 10 or 25 grams to multi-kilogram quantities. All materials are made and shipped directly from the USA.

Looking for a particular material or composition not listed? Let NEI make it for you. We can custom produce or modify any solid electrolyte material of your choice.

Request your quote today!

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