

# NANOMYTE® Solid Electrolytes

## Electrolyte Materials for All Solid State Batteries

A long trusted source for custom developed materials used in li-ion batteries, NEI Corporation is your go-to source for commercial and custom solid electrolyte materials. NEI is actively involved in producing solid electrolyte materials of various sulfide, oxide, phosphate, and polymer electrolyte compositions. All materials are made and shipped directly from NEI and available for purchase from 10 grams to multi-kilogram quantities.

Sulfide-based Electrolyte Materials:		
Product	Product Description	Formula
NANOMYTE® SSE-10	"LSPS" – Lithium Tin Phosphorus Sulfide (~3 to 5 μm)	$\text{Li}_{10}\text{SnP}_2\text{S}_{12}$
NANOMYTE® SSE-20	Solid Electrolyte Dispersion Fluid for Sulfides	(Dichloromethane)
"LPS"	Lithium Phosphorus Sulfide (~3 to 5 μm)	$\beta\text{-Li}_3\text{PS}_4$
"LPSCI"	Lithium Phosphorus Sulfur Chloride (~3 to 5 μm)	$\text{Li}_6\text{PS}_5\text{Cl}$
Fine "LPSCI"	Lithium Phosphorus Sulfur Chloride (~1 μm)	$\text{Li}_6\text{PS}_5\text{Cl}$
"LPSCII"	Lithium Phosphorus Sulfur Chloride Iodide (~3 to 5 μm)	$\text{Li}_6\text{PS}_5\text{Cl}_{0.9}\text{I}_{0.1}$

Oxide-based Electrolyte Materials:		
Product	Product Description	Formula
NANOMYTE® SOX-10	"LLTO" – Lithium Lanthanum Titanate (~1 – 2 μm)	$\text{Li}_{0.34}\text{La}_{0.56}\text{TiO}_3$
NANOMYTE® SOX-20	"LLZO" – Al-Doped Lithium Lanthanum Zirconium Oxide (~1 – 2 μm)	$\text{Li}_{6.24}\text{La}_3\text{Zr}_2\text{Al}_{0.24}\text{O}_{11.98}$
NANOMYTE® SOX-25	"LLZO" – Al-Doped Lithium Lanthanum Zirconium Oxide (~5 – 6 μm)	$\text{Li}_{6.24}\text{La}_3\text{Zr}_2\text{Al}_{0.24}\text{O}_{11.98}$
NANOMYTE® SOX-30	"LLZTO" – Ta-Doped Lithium Lanthanum Zirconate (~1 – 2 μm)	$\text{Li}_{6.2}\text{Al}_{0.2}\text{La}_3\text{Zr}_{1.8}\text{Ta}_{0.2}\text{O}_{12}$
NANOMYTE® SOX-35	"LLZTO" – Ta-Doped Lithium Lanthanum Zirconate (~3 – 4 μm)	$\text{Li}_{6.2}\text{Al}_{0.2}\text{La}_3\text{Zr}_{1.8}\text{Ta}_{0.2}\text{O}_{12}$

Phosphate-based Electrolyte Materials:		
Product	Product Description	Formula
NANOMYTE® PHE-10	"LATP" – Lithium Aluminum Titanium Phosphate (~1 μm)	$\text{Li}_{1.4}\text{Al}_{0.4}\text{Ti}_{1.6}(\text{PO}_4)_3$
NANOMYTE® PHE-15	"LATP" – Lithium Aluminum Titanium Phosphate (~2 – 3 μm)	$\text{Li}_{1.4}\text{Al}_{0.4}\text{Ti}_{1.6}(\text{PO}_4)_3$
NANOMYTE® PHE-20	"LAGP" – Lithium Aluminum Germanium Phosphate (~2 – 3 μm)	$\text{Li}_{1.5}\text{Al}_{0.5}\text{Ge}_{1.5}(\text{PO}_4)_3$

Polymer-based Electrolyte Materials:		
Product	Product Description	Type
NANOMYTE® H-Polymer	PEO-based Polymer Solid Electrolyte (solid)	Polymer
NANOMYTE® SE-50	Polymer-Ceramic composite Solid Electrolyte (solid)	Polymer-Ceramic
NANOMYTE® SE-50A	Polymer-Ceramic composite Solid Electrolyte (30% in Acetonitrile)	Polymer-Ceramic
NANOMYTE® SE-50N	Polymer-Ceramic composite Solid Electrolyte (30% in NMP)	Polymer-Ceramic

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