



Lectro® Max Powder 100 SLMP®

CAS No. MIXTURE

QS-PDS-2060 Revision: 05

Date of Last Revision: June 12, 2024

Formula: Lithium Metal

Appearance: Lectro® Max Powder, Stabilized Lithium Metal Powder (SLMP®), is a gray powder.

Application: Lectro® Max Powder (SLMP®) enables a new generation of Li-ion batteries by providing an independent source for lithium, which opens up choices for both anode and cathode materials. Introducing lithium in a stabilized powder form with the anode host material, such as Si and Sn-based, to form a lithium-ion system leads to a higher energy battery with more efficient utilization of lithium. Using non-lithium providing cathodes like manganese, vanadium or other metal oxides and metal fluorides that are more overcharge tolerant and potentially have lower costs, leads to safer and cheaper batteries. When used in combination, these materials can potentially double the energy density of the current lithium-ion battery.

Lectro® Max Powder (SLMP®) could be used to replace thin lithium foil applications and in Fusion Research Devices to improve plasma performance.

Product Specifications:	Li, wt. %	97.0	min
	Li ₂ CO ₃ , wt. %	0.5 min	2.5 max
	Malvern d50, µm	25	60 max
	Malvern d100, µm	250	max

Physical Properties:	Formula Weight	6.94
	Bulk Density	0.35 g/mL
	Melting Point	180.5°C

Toxicity / Safety Data / Handling / Storage / Disposal: *Information on toxicity, safety, handling, storage and disposal is contained in the Safety Data Sheet (SDS) for this product.*

Shipping Containers: 125 mL or 1 L glass bottles.



Shipping Limitations: Shipments of SLMP are described as "METALLIC SUBSTANCE, WATER-REACTIVE SELF-HEATING N.O.S. UN3209" PG I. All shipments are Hazard Class 4.3 and require "Dangerous When Wet" and "Self heating solid" labels.

Post, Parcel	Not acceptable	
Sea	Class 4.3	(IMDG)
Road, Rail	Class 4.3	(RID/ADR)
Air	15 Kg max	Cargo Aircraft Only