



Lithium Metal, Catalyst Grade

CAS No. 7439-93-2

QS-PDS-2024 Revision: 04

Date of Last Revision: September 26, 2022

Formula: Li

Appearance: Metallic silver in color, surface appearance is gray with oil.

Application: For use in battery applications.

Product Specifications:	Li, wt. %	99.8	min
	Na, wppm	0.5	min 1.0 max
	Ca, wppm	700	max
	Fe, wppm	100	max
	Si, wppm	100	max
	Cl, wppm	100	max
	N, wppm	300	max
	K, wppm		max

Standard Product

Form	Trapezoidal Ingot
Weight	2 lb
Length	10.5 in
Height	3.25 in
Width	2.5 / 3.5 in

Custom products and packaging can be developed based upon mutually agreed upon specifications

Physical Properties:	Atomic Weight	6.94
	Melting Point	180.5°C
	Boiling Point	1317°C
	Hardness (Mohs)	0.6
	Electrical Resistivity @ 20°C	9.35 x 10 ⁻⁶ ohm-cm
	Thermal Conductivity, 0-100°C	0.17 cal/cm ² /°C/sec
	Linear Coefficient of Thermal Expansion @ 25°C	51 x 10 ⁻⁶
	Volume Increase on Melting	1.51%
	Isotopic Composition (Natural)	Li ⁷ 92.6 Atomic Percent Li ⁶ 7.4 Atomic Percent
	Density	0.534 g/cm ³



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: Catalyst grade metal is packed under mineral oil. 85.49 Kg of product in a polyethylene-lined open head steel drum. Four (4) drums per pallet. 341.96 Kg per pallet.

Shipping Limitations: Shipments of lithium metal are described as "UN 1415, Lithium, Class 4.3, PG I". All shipments are Hazard Class 4.3 and require "Dangerous When Wet" labels.

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