



Lithium Metal, Alloy Grade

CAS No. 7439-93-2

QS-PDS-2022 Revision: 04

Date of Last Revision: June 12, 2024

Formula: Li

Appearance: Metallic silver in color.

Application: For use in alloys and battery applications.

Product Specifications:	Li, wt. %	99.8	min
	Cl, wppm	60	max
	N, wppm	800	max
	Na, wppm	100	max
	Ca, wppm	190	max
	Fe, wppm	100	max
	Si, wppm	100	max
	K, wppm	100	max

Standard Product

Form	Ingot
Weight	10 lb
Diameter	6 in
Length	20 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	9.35×10^{-6} ohm-cm
	Thermal Conductivity, 0-100°C	0.17 cal/cm/°C/sec
	Linear Coefficient of Thermal Expansion @ 25°C	51×10^{-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:

- 2.2 Kg / 4.85 lbs ingots are individually dry packed under argon in hermetically sealed aluminized polyester pouches. Each ingot is placed in a bubble bag. 24 ingots per steel drum.
- 4.75 Kg / 10.49 lbs ingots are individually dry packed under argon in hermetically sealed aluminized polyester pouches. Each ingot is placed in a bubble bag. 10 ingots per steel drum.

Shipping Limitations: Shipments of lithium metal are described as "Lithium, UN 1415," 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.