

LITHIUM METAL, ALLOY GRADE HIGH PURITY

QS-PDS-2021 Revision: 02

Chemical Formula	Li				
Appearance	Metallic silver in color				
Product Specifications	Li 99.8 wt % min Na 60 wppm max Ca 60 wppm max K 60 wppm max Fe 100 wppm max Si 100 wppm max Cl 60 wppm max N 800 wppm max				
Standard Product	<u>Form</u> Ingot	<u>Weight</u> 10 lb	<u>Diameter (inch)</u> 6	<u>Length (inch)</u> 20	
	Custom products and packaging can be developed based upon mutually agreed specifications.				
Shipping Containers	High purity alloy grade metal is dry packed under argon in hermetically-sealed aluminized polyester foil pouches. A variety of approved boxes or steel drums are used to accommodate the product and quantity ordered. Standard packaging is permissible for truck or ocean shipment.				
Shelf Life	The quality of high purity alloy grade lithium metal in the original unopened and undamaged packaging is guaranteed for six months from date of manufacture.				
Physical Properties	Atomic weight Density Melting Point Boiling Point Hardness (Mohs) Electrical resistivity @ 20°C Thermal conductivity, 0-100°C Linear coefficient of thermal expansion @256 Volume increase on melting Isotopic composition (natural)			6.94 0.534 g/cm ³ 180.5°C 1317°C 0.6 9.35 x 10 ⁻⁶ ohm-cm 0.17 cal/cm/°C/sec 5°C 51 x 10 ⁻⁶ 1.51% Li ⁷ 92.6 atomic percent Li ⁶ 7.4 atomic percent	



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CAS No. 7439-93-2

Toxicity/Safety Data	Flammable solid. Water reactiv corrosive dust and flammable h melting point (180.5°C/357°F), Corrosive to eyes (may cause h COMPLETE INFORMATION C THE SAFETY DATA SHEET (S	nydrogen gas. Elev can result in spon plindness), skin, n DN TOXICITY ANE	vated temperatures, above taneous ignition in humid air. ose, throat and stomach.		
Handling/Storage/Disposal	Can be handled in open atmosphere at room temperature, either coated with mineral oil or where relative humidity is maintained below 50%. To maintain best quality, humidity levels of less than 2% are recommended. Wear safety glasses or goggles and dry rubber gloves. Store in original unopened shipping container. Once opened, store in argon atmosphere or mineral oil. Keep away from water, humid air, acids and oxidizing materials. Keep away from heat, sparks and flame.				
Shipping Limitations	Shipments of lithium metal are shipments are Hazard Class 4. Post, Parcel Sea Road, Rail Air				

Responsible Care® initiative dictates that all shipments of lithium chemicals must be transported in an approved vehicle in a responsible manner (i.e., no flat bed trucks).

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