



LITHIUM HYDROXIDE MONOHYDRATE

Rosatom Chemical specializes in the development and production of chemical products and technologies across a wide range of fields.

Rosatom Chemical is the manufacturer of lithium hydroxide monohydrate.

Lithium hydroxide appears as a colorless or white crystalline powder and can be produced to meet custom specification requirements.

APPLICATION AREAS

Battery-grade lithium hydroxide monohydrate is primarily used for production of cathode materials for lithium-ion batteries, also electrolyte additive in alkaline batteries, increasing capacity by 12–15% and extending lifespan 2- to 3-fold.



Technical-grade lithium hydroxide serves as critical additive for lithium greases, alkaline batteries and corrosion-resistant dyes.



Lithium-Ion Batteries

→ Cathode material precursor



Alkaline Batteries

→ Electrolyte additive



Lithium Greases

→ Performance-enhancing additive



Corrosion Protection

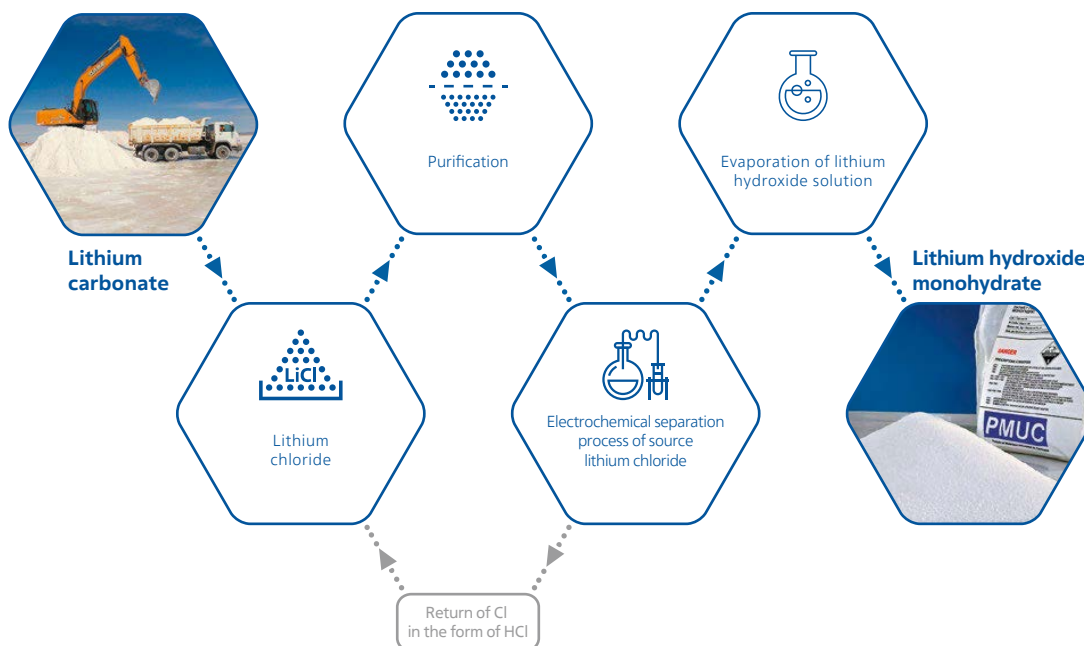
→ Additive for corrosion-resistant dyes

Lithium hydroxide Grade	Content, ≥ min %	Content, ≤ max %											
	LiOH·H ₂ O	Na+K	Mg	Ca	Si	Fe	Pb	Al	Cl	CO ₃	SO ₄	CO ₂	
Battery grade/BG	56,7	0,002	0,001	0,001	0,007	0,001	0,0005	0,01	0,02	0,4	0,01	—	—
Technical grade/TG	56,5	0,05	—	0,03	—	0,003	—	—	0,02	—	0,05	0,35	0,01

Available for production according to customer specifications.



In 2020, a pilot plant for lithium hydroxide production was launched using Rosatom's proprietary universal technology.



PACKAGING

Lithium hydroxide is supplied in flexible intermediate bulk containers (FIBCs) – polypropylene bags with polyethylene liners. These are palletized (40 bags per pallet) and stretch-wrapped. The packaging complies with international standards, ensuring long-distance transportation without altering the product's physicochemical properties. Pallets are loaded into standard 20-foot or 40-foot shipping containers for global delivery.

Lithium hydroxide monohydrate produced by Rosatom Fuel Company TVEL is certified for compliance with international standards ISO: ISO 9001:2015, ISO 14001:2015, ISO 28000:2007, ISO 45001:2018, ISO 50001:2018.

