



TVEL
ROSATOM

Russian Federation,
Moscow, TVEL
www.tvel.ru

LITHIUM HYDROXIDE MONOHYDRATE



COLORLESS OR WHITE CRYSTALLINE POWDER

SCOPE OF APPLICATION



The rechargeable lithium hydroxide monohydrate grade is mainly used for the preparation of cathode materials for lithium-ion batteries, as well as an additive for alkaline battery electrolytes, which can increase capacity by 12-15% and the service life by 2-3 times.

The technical grade of lithium hydroxide is an important additive for lithium greases, alkaline batteries and corrosion-resistant dyes.

Element	Content, %	
	Battery Grade / BG	Technical Grade / TG
LiOH•H ₂ O	not less than (min) 56.7	not less than (min) 56.5
Na + K	not more than (max) 0.002	not more than (max) 0.05
Mg	not more than (max) 0.001	-
Ca	not more than (max) 0.001	not more than (max) 0.03
Si	not more than (max) 0.007	-
Fe	not more than (max) 0.001	not more than (max) 0.003
Pb	not more than (max) 0.0005	-
Al	not more than (max) 0.01	-
Cl	not more than (max) 0.02	not more than (max) 0.02
CO ₃	not more than (max) 0.4	-
SO ₄	not more than (max) 0.01	not more than (max) 0.05
CO ₂	-	not more than (max) 0.35
Substances insoluble in HCL	-	not more than (max) 0.01

It is possible to customize product manufacture.

EXPERIMENTAL INSTALLATION FOR THE MANUFACTURE OF LITHIUM HYDROXIDE USING PROPRIETARY TECHNOLOGY WAS STARTED IN 2020



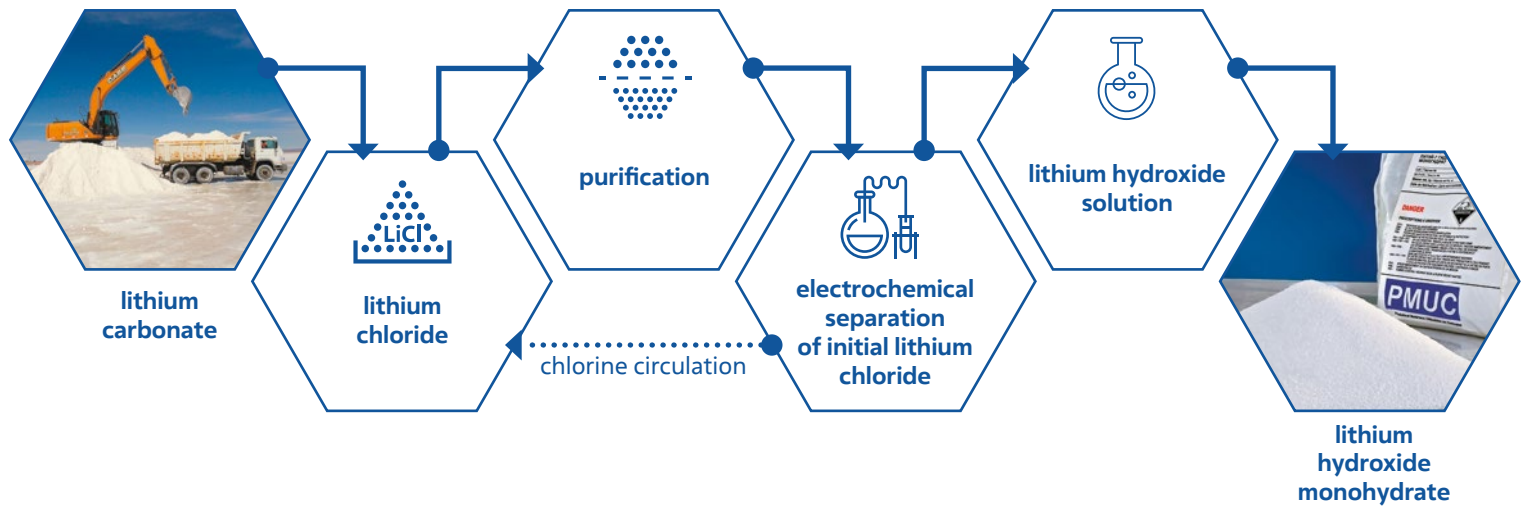
Eco-friendly electrochemical technology



Unique continuous process



Multi-stage purification of a chemically pure product



PACKAGING

Lithium hydroxide is delivered in soft polypropylene bags with a polyethylene liner, which are then placed on pallets (40 bags per pallet) covered with film. Lithium hydroxide packaging complies with international standards and enables long-distance product transportation without changing physical and chemical properties of the products.

Pallets are placed in standard 20 or 40 foot containers that can be shipped anywhere in the world.

Lithium hydroxide monohydrate manufactured by Fuel Company of ROSATOM TVEL is certified by the ISO standards: ISO 9001:2015, ISO 14001:2015, ISO 28000:2007, ISO 45001:2018, ISO 50001:2018.