



CHINA LITHIUM PRODUCTS TECHNOLOGY CO.,LTD

HEAD OFFICE:
9H, ZHEN HAO GE BUILDING,NO.99,LUJIANG ROAD,
XIAMEN,CHINA

TELEPHONE: 86 592 2687860 86 592 2687863
FACSIMILE: 86 5922687865
INTERNET: www.lithium-chemical.com

CERTIFICATE OF ANALYSIS

LITHIUM HYDROXIDE 56.50% MIN BATTERY GRADE

CAS No.: 1310-66-3
Batch No.: 2025003293301

CHEMICAL SPECIFICATIONS:

| ANALYSIS CONTENTS | ANALYSIS STANDARD | RESULT | TEST METHODS |
|--------------------|-------------------|-----------|-------------------------|
| LiOH | 56.5% Min | 57.46% | TITRATION(ASTM E291) |
| Na | 0.15% Max | 0.00062% | AAS (ASTM E1834) |
| K | 0.003%Max | 0.0001% | AAS (ASTM E1834) |
| CO ₃ | 0.13%Max | 1161ppm | ASTM E200 |
| Ba | 0.001%Max | 0.000%(N) | AAS (ASTM E1834) |
| Al | 0.01%Max | 0.000%(N) | ASTM E353 |
| S | 0.01%Max | 0.0012% | ASTM E353 |
| P | 0.001%Max | 0.000%(N) | ICP-OES (ASTM E1479) |
| Zn | 0.001%Max | 0.000%(N) | AAS (ASTM E1834) |
| Mg | 0.001%Max | 0.000%(N) | AAS (ASTM E1834) |
| Sr | 0.001%Max | 0.000%(N) | ICP-MS (ASTM E3066) |
| Co | 0.005%Max | 0.000%(N) | ICP-OES/ICP-MS |
| Pb | 0.005%Max | 0.000%(N) | ICP-MS (ASTM E3066) |
| Fe | 0.001%Max | 0.00011% | ICP(ASTM D 1976) |
| Ca | 0.003%Max | 0.000%(N) | ICP-OES (ASTM E1479) |
| Ni | 0.05%Max | 0.0001% | ICP-MS (ASTM E3066) |
| Cu | 0.001%Max | 0.000%(N) | ICP-OES (ASTM E1479) |
| Cd | 0.001%Max | 0.000%(N) | ICP-MS (ASTM E3066) |
| Ag | 0.001%Max | 0.000%(N) | ICP-MS (ASTM E3066) |
| Si | 0.001%Max | 0.000%(N) | ICP-OES (ASTM E1621) |
| Cr | 0.001%Max | 0.000%(N) | ICP-OES/ICP-MS |
| CO ₂ | 0.35% Max | 0.12% | ICP (ASTM D 1976) |
| SO ₄ | 0.02% Max | 0.0018% | AAS (ASTM D516) |
| CL- | 0.002% Max | 6ppm | TITRATION (ASTM D1193) |
| INSOLUBLE IN HCL | 0.002% Max | 0.0009% | GRAVIMETRIC(ASTM D1193) |
| INSOLUBLE IN WATER | 0.02%Max | 0.0032% | GRAVIMETRIC(ASTM D1193) |
| MAGNETIC IMPURITY | 80 ppb Max | 12.50 ppb | MAGNETIC (ASTM A342) |
| PARTICLE SIZE | D50 | 120-300 | ASTM B822 |
| | D90 | 400-700 | |



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Authorised By: (Technologist)- Chen Lin

Pages No: 1 / 2

Authorised By: (QA Manager)- De Biao





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PHYSICAL PROPERTIES:

| | |
|-------------------|------------|
| MOLECULAR WEIGHT: | 41.96 |
| CHEMICAL FORMULA: | LiOH . H2O |

GENERAL DESCRIPTION:

| | |
|------------------|--------------------------|
| CHEMICAL FORMULA | LiOH.H2O |
| APPEARANCE | WHITE CRYSTALLINE POWDER |
| COLOUR | WHITE |

STANDARD PACKAGING:

PACKED IN NET WEIGHT 25KG/500KGS PER WOVEN PP BAG , INNER WITH P.P. LINING WITH PALLETES & SHRINK WRAPPED (SEAWORTHY PACKING).1 MT/ PER PALLET.

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