Lith™

LITHIUM CHLORIDE ANHYDROUS 98%

CAS Number: 7447-41-8
Chemical Formula: LiCl

PRODUCT DESCRIPTION

Lithium Chloride Anhydrous 98% is a white, hygroscopic inorganic lithium salt used in lithium metal production, industrial drying applications and specialty chemical processing. Its ability to absorb moisture makes it suitable for desiccant applications, while its chemical properties support use in molten salt electrolysis and selected chemical synthesis processes.

KEY FEATURES

- Minimum 98.50% lithium chloride content
- White, hygroscopic powder
- Effective moisture-absorbing properties
- Suitable for molten salt electrolysis processes
- Used in specialty chemical and industrial applications

APPLICATIONS

- Lithium metal production through molten salt electrolysis
- Desiccant applications for drying air streams
- Aluminium brazing flux formulations
- Organic synthesis and chemical processing
- Flame colourant applications
- Specialised biochemical laboratory processes

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Specialty Chemical Experts

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PLEASE READ CAREFULLY.

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This document is subject to revision without notice as new data becomes available.

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PRODUCT SPECIFICATIONS

PARAMETER	TYPICAL VALUE
Lithium Chloride, wt.%	≥98.50
Appearance	Hygroscopic white powder
Moisture, wt.%	<2.0 (when packed)
Sulfates (as SO_4), wt.%	≤0.01
Iron (Fe), wt.%	≤0.005
Heavy Metals, wt.%	≤0.01
Sodium (Na), wt.%	≤0.03
Bulk Density, kg/m³	1050–1100
pH	7.5–8.0
Solubility	Complies
Alkalinity (as LiOH)	0.06–0.08 N
Acidity (as HCl)	0.05–0.09 N (0.06 N typical)

PACKAGING
Available in 25 kg and 50 kg polyethylene-lined HDPE bags or drums.

STORAGE & HANDLING
Store in original, tightly sealed packaging in a cool, dry area. Protect from humidity and moisture exposure, as lithium chloride is highly hygroscopic. Keep containers securely closed when not in use to minimise moisture absorption and contamination.

SAFETY
Avoid contact with skin, eyes and clothing. Wear appropriate protective equipment, including safety glasses, chemical-resistant gloves and protective clothing when handling.

Refer to the current Safety Data Sheet (SDS) for detailed information on hazards, safe handling, storage and disposal.