

Technical Data Sheet

Lithium fluoride LITHIUM FLUORIDE
Formula: LiF
Formula weight: 25.97
CAS NO.: 7789-24-4
Physical-chemical Properties: White powder, relative density 2.653, melting point 848°C (1558.4°F), hardly soluble in water, insoluble in ethanol and acetone, soluble in acid, and it can produce LiHF ₂ together with HF.
Applications: Mainly used in the ceramic industry, also used in the manufacture of welding rods, used in the manufacture of prisms for spectrometers and X-ray monochromators, as carriers for proliferative reactions and in the manufacture of lithium-ion batteries.
Quality standard: Q/TJTE 23-2007

Component		Lithium Fluoride		
LiF Content (Min%)		99.0	99.9	99.99
Impurity Content (Max%)	Sodium (Na)	0.5	0.005	0.001
	Potassium (K)		0.001	0.0005
	Calcium (Ca)	0.1	0.01	0.003
	Magnesium (Mg)	0.05	0.005	0.001
	Silicon (Si)	0.05	0.01	0.005
	Sulfate (SO ₄)	0.05	0.008	0.002
	Iron (Fe)	0.005	0.005	0.0005
	Chlorine (Cl)	0.005	0.005	0.0005
	Aluminum (Al)	0.01	0.001	0.0005
	Copper (Cu)	/	0.001	0.0005
	Heavy metals (in Pb)	/	0.01	0.0005
Packing: By woven bag lined with plastic bag, 25kg/bag. By paper drum lined with plastic bags, 30kg/drum.				