

六氟磷酸锂

Lithium
Hexafluorophosphate

产品综述 Product summary

六氟磷酸锂 (LiPF_6) 为白色结晶或粉末, 易溶于水, 可溶于低浓度的甲醇、乙醇、碳酸酯等有机溶剂, 熔点为 200°C , 相对密度为 1.50 g/cm^3 。六氟磷酸锂是电解液成分中重要的组成部分, 约占到电解液总成本的 43%。与 LiBF_4 、 LiAsF_6 、 LiClO_4 等电解质相比, 六氟磷酸锂在有机溶剂中的溶解度、电导率、安全性和环保性方面具有优势, 是目前应用范围最广的锂盐。

Lithium hexafluorophosphate (LiPF_6) is a white crystal or powder, soluble in water, soluble in low concentration of methanol, ethanol, carbonate and other organic solvents, melting point is 200°C , the relative density of 1.50 g/cm^3 . LiPF_6 is an important component of electrolyte, accounting for about 43% of the total cost of electrolyte. Compared with LiBF_4 , LiAsF_6 , LiClO_4 and other electrolytes, lithium hexafluorophosphate has advantages in solubility, conductivity, safety and environmental protection in organic solvents, and is the most widely used lithium salt at present.



产品指标 Quality specification

项目 Items	单位 Units	指标 Specification
六氟磷酸锂 Lithium hexafluorophosphate	$\omega/\%$	≥ 99.95
碳酸二甲酯 (DMC) 不溶物 Dimethyl carbonate	$\omega/\%$	≤ 0.0200
水分 Moisture	$\omega/\%$	≤ 0.0020
游离酸 (以 HF 计) Free acid	$\omega/\%$	≤ 0.0090
硫酸盐 (以 SO_4 计) Sulfate	mg/kg	≤ 5
氯化物 (以 Cl 计) Chlorid	mg/kg	≤ 2
Fe	mg/kg	≤ 2
K	mg/kg	≤ 1
Na	mg/kg	≤ 2
Ca	mg/kg	≤ 2
Cd	mg/kg	≤ 1
Cr	mg/kg	≤ 1
Cu	mg/kg	≤ 1
Mg	mg/kg	≤ 1
Ni	mg/kg	≤ 1
Pb	mg/kg	≤ 1
Zn	mg/kg	≤ 1
As	mg/kg	≤ 1