



優必克科技股份有限公司
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Cathode Material (Ni83)

Product name : Cathode Material (Ni83)

Model : LNCM-83NI

Chemical formula : $\text{LiNi}_{0.83}\text{Co}_{0.12}\text{Mn}_{0.05}\text{O}_2$



Project		Standard Value	Batch Analysis
Exterior		Charcoalgrey Powder , Non-Caking	Charcoalgrey Powder , Non-Caking
Morphology		Spheroid	Spheroid
Chemical composition	Li (%)	6.9~7.5	7.17
	Ni+Co+Mn(%)	≥58	50.02+7.7+3.09
	Al(ppm)	1500±150	1501
Impurity	Fe(ppm)	≤100	21
	Ca(ppm)	≤300	25
	Cu(ppm)	≤50	3
	Mg(ppm)	≤300	11
	Na(ppm)	≤300	149
Particle size distribution	D10 (μ m)	≥4.5	5.44
	D50 (μ m)	8~12	10.10
	D90 (μ m)	≤22	17.4
PH Value		≤12	11.7
Moisture(%)		<0.1	0.035
Specific surface area (m ² /g)		≤0.75	0.43
Tap density (g/cm ³)		≥2.1	2.55
First discharge capacity (mAh/g)		≥200	204.1
First efficiency (%)		≥87	89.72