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Cathode Material

(NCM111)

Product name : Cathode Material (NCM111)

Model : LNCM-101

Chemical formula : $\text{LiNi}_{0.33}\text{Co}_{0.33}\text{Mn}_{0.33}\text{O}_2$



Analysis:

Project		Standard value	measured value
Chemical composition	Ni (%)	60±3	58.42
	Co (%)		
	Mn (%)		
PH		9.5-12	11.03
Moisture (%)		≤0.1	0.073
Subtle distribution	D10 (μm)	≥2	6.61
	D50 (μm)	7-12	10.97
	D90 (μm)	≤25	17.22
Specific surface area (m ² /g)		0.2-0.6	0.58
Tap density (g/cm ³)		≥2.0	2.53
1C (mAh)		140-145	142
First charge and discharge efficiency (%)		≥85	85
1C Cycle life		1000 times capacity retention rate ≥85%	88%