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Cathode Material (NCM523)

Product name : Cathode Material (NCM523)

Model : LNCM-530T

Chemical formula : $\text{LiNi}_{0.5}\text{Co}_{0.2}\text{Mn}_{0.3}\text{O}_2$



Analysis:

Project		Standard value	measured value
Chemical composition	Li (%)	7.00~7.70	7.35
	Ni+Mn+Co(%)	≥ 58.0	30.37+12.58+17.35
Impurities	Fe(ppm)	<100	21
	Na(ppm)	<300	253
	Cu(ppm)	<50	7
Particle size distribution	D10 (μm)	≥5.0	6.03
	D50 (μm)	10.5~12.0	11.44
	D90 (μm)	≤25.0	18.88
PH		≤11.80	11.69
Moisture (%)		<0.1	0.028
Specific surface area (m ² /g)		0.2~0.5	0.31
Tap density (g/cm ³)		≥2.3	2.42
First discharge capacity (mAh/g)		≥160	162.06
First charge and discharge efficiency (%)		≥87.0	87.65