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# Cathode Material ( $\text{LiFePO}_4$ )

Product name : Cathode Material (  $\text{LiFePO}_4$  )

Model : LFP-13FT

Chemical formula :  $\text{LiFePO}_4$

Analysis:



Test Parameter	Unit	Equipment/Method	Standard	Result	Remark
<b>Physics Characteristics</b>					
Tap Density	$\text{g/cm}^3$	ASTM B527	$0.95 \pm 0.15$	1.08	OK
Specific Surface Area	$\text{m}^2/\text{g}$	Micromeritics Gemini V	$11 \pm 2$	11.73	OK
D <sub>10</sub>	$\mu\text{m}$	HORIBA LA-950V2	<1.5	1.32	OK
D <sub>50</sub>	$\mu\text{m}$		2~4	2.35	OK
D <sub>90</sub>	$\mu\text{m}$		4~7	4.62	OK
Moisture	ppm	MITSUBISHI CHEMICAL CA-200	$\leq 1200$	593	OK
<b>Composition Analysis</b>					
Li	%	VARIN AA240	$4.4 \pm 0.5$		OK
Fe	%		$34.4 \pm 1.5$		OK
P	%		$20.0 \pm 1.0$		OK
C	%	Heraeus vario III	1~3%		OK
<b>Electrochemical Characteristics</b>					
0.2C Discharge Capacity	mAh/g	charge/discharge rate @0.2C/0.2C @25°C	$152 \pm 2$	153	OK
1C Discharge Capacity	mAh/g	charge/discharge rate @0.5C/1C @25°C	$140 \pm 3$	143	OK