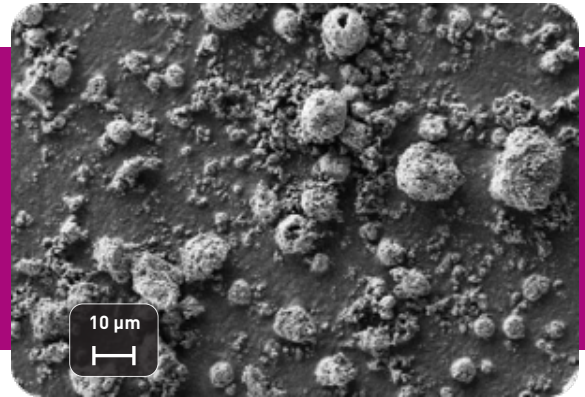


IBUvolt® LFP200



SEM of LFP200

CHEMICAL & PHYSICAL PROPERTIES

ITEM	UNIT	SPECIFICATION	TESTING METHOD
Fe		31.5 - 34.0	ICP-OES
Li		3.9 - 4.9	ICP-OES
P	(wt.-%)	17.8 - 19.8	ICP-OES
C		3.5 - 3.9	Combustion
Specific surface area (BET)	(m ² /g)	19 - 25	N ₂ Physisorption
Tapped density	(g/cm ³)	0.9 - 1.3	Tapped density tester
PSD, d10		0.5 - 1.5	Laser diffraction
PSD, d50	μm	5.0 - 8.0	Laser diffraction
PSD, d90		11.0 - 15.0	Laser diffraction
PSD, d99		≤ 25.0	Laser diffraction
Cu*		≤ 30	ICP-OES
Mn + Cr* + Ni + Mg + Ca + Zn	(ppm)	≤ 1070	ICP-OES
Na + K*		≤ 500	ICP-OES
S		≤ 1200	Combustion
Moisture	(ppm)	≤ 1000	Coulometric, 200 °C
pH value	(-)	7.5 - 10.5	5 g in 100 ml water

* Below detection limit (Cu, Cr 30 ppm, K 100 ppm)

CAPACITY TESTS (COIN CELLS)

ITEM	UNIT	TYPICAL VALUE	SPECIFICATION
Specific capacity 0.1 C*	(mAh/g)	145	≥ 142
Coulomb efficiency 1st cycle	(%)	> 95.0	

* Half cells, 25 °C, 8 mg/cm², LiPF₆ EC/DMC/DEC, 2nd cycle discharge CC 4.2 - 2.7 V