

Anhydrous Iron Phosphate for Battery Materials

HX-002

Item		Standard Value	Typical Value
Fe	%	≥35.9	36.68
P	%	≥20.6	20.86
Fe/P		0.970-0.980	0.975
Ca	≤ppm	≤50	4
Mg	≤ppm	≤50	23
Na	≤ppm	≤50	4
K	≤ppm	≤50	38
Cu	≤ppm	≤10	ND
Zn	≤ppm	≤50	6
Mn	≤ppm	≤100	32
Al	≤ppm	≤50	6
Ti	≤ppm	≤100	1
Co	≤ppm	≤10	1
Pb	≤ppm	≤10	4
Cr	≤ppm	≤20	12
Ni	≤ppm	≤20	ND
S	≤ppm	≤200	55
Sn	≤ppm	≤8	1
Magnetic impurity	≤ppm	≤0.9	0.19
Moisture	≤ %	≤0.6	0.30
Tap Density	≥g/m ³	/	0.74
Particle Size Distribution	(D50) ≤ μm	≤15	2.69
	(D99) ≤ μm	30-60	35.61
Specific Surface Area(BET)	m ² /g	4-10	6.03
pH(10% solution)		2.9-3.5	3.24

The primary particles of HX002 type iron phosphate are in large flake shape, the size is about 300 nm; The ammonium-two-step method make the Fe/P ratio and SSA of the products stable, the range of each data index is narrow, and the crystallinity of the products is high. It shows excellent electrochemical properties while taking into account compaction properties, and is suitable for the preparation of medium and high compaction density type or high-rate type LFP.

Product Morphology

