

Anhydrous Iron Phosphate for Battery Materials

Item		Standard Value	Typical Value
Fe	%	36.10-36.45	36.41
P	%	20.75-20.95	20.90
Fe/P		0.960-0.972	0.966
Ca	≤ ppm	50	2
Mg	≤ ppm	50	18
Na	≤ ppm	30	8
K	≤ ppm	50	26
Cu	≤ ppm	5	ND
Zn	≤ ppm	10	5
Mn	≤ ppm	50	16
Al	≤ ppm	50	6
Ti	≤ ppm	20	1
Sn	≤ ppm	8	1
Co	≤ ppm	10	1
Pb	≤ ppm	10	3
Cr	≤ ppm	20	7
Ni	≤ ppm	5	ND
S	≤ ppm	100	58
Magnetic impurity	≤ ppm	0.8	0.02
Moisture	≤ %	0.6	0.27
Tap Density	≥ g/m ³	0.8	0.94
Particle Size Distribution	(D50) ≤ μm	15	10.02
	(D99) ≤ μm	80	37.55
Specific Surface Area(BET)	m ² /g	7.5-9.5	8.68
pH(10% solution)		3.0-3.4	3.25

The secondary particles of the HX003 Iron Phosphate are well-graded with the primary particles. The Two-step ammonium process makes the Fe/P ratio and SSA figures of the product stable, and the range of each figure is narrow, so that the product can be able and easy to be regulated. The crystallization rate of the product is high. It shows excellent compaction property, and is suitable being applied in the production of high compaction density Lithium Iron Phosphate.

Product Morphology

