



Iron oxide for LFP battery

Fine Particle and High-Purity Iron Oxide for LFP Battery

FEATURES

This iron oxide (goethite: α -FeOOH) is developed as a raw material for cathode material of olivine type lithium-iron phosphate (LFP:LiFePO₄) secondary batteries. The purity and particle properties are optimized by TODA KOGYO's wet synthesis technologies.

CHARACTERISTICS

1

High purity

This goethite is high-purity iron oxide with impurities controlled by raw material refining and purification technology.

2

Customization of powder properties

Since it is possible to control the particle shape, size, dispersibility, etc., TODA KOGYO provides the products optimized for various applications.

SPECIFICATIONS

[Typical Properties]

		GY-L300	GY-L900
Material		α -FeOOH	α -FeOOH
Shape		Needle	Needle
Color		Yellow	Yellow
Purity(α -FeOOH)	[wt%]	95<	95<
Specific surface area (BET)	[m ² /g]	30	90
Bulk density	[g/ml]	0.25	0.65



[TEM Image of The Particle]

[Optional Fabrication]

- ✓Hematite (α -Fe₂O₃) and magnetite (Fe₃O₄) are also available.
- ✓Customization available, including for the particle size (nano to micron meter), shape.
- ✓Various surface treatments depending on your demands.
- ✓Composite particle with organic/inorganic material.

APPLICATIONS

- Raw material for cathode material of olivine type lithium-iron phosphate secondary batteries.
- Raw material for cathode material for all-solid-state lithium secondary batteries.

