

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

High purity

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

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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		lpha -FeOOH	lpha -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.



Tokyo Office

Shiba Mita Mori Building 6F, 5-13-15 Shiba, Minato-ku, Tokyo 108-0014, Japan https://www.todakogyo.co.jp/english/

TEL. +81-3-5439-6040 webmaster@todakogyo.co.jp

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