

## Iron Trifluoride (FeF<sub>3</sub>)

Catlog Number: BMCM-0024

### • Description

Metal fluoride conversion cathode material offering a high theoretical voltage and capacity for research into next-generation high-energy batteries.

### • Basic Information

Chemical Formula: FeF<sub>3</sub>

Appearance: Off-white Powder

Molecular Weight: 112.84 g/mol

D50 Particle Size: 1 - 10 μm

Tap Density: ≥ 0.6 g/cm<sup>3</sup>

BET Surface Area: 30 - 60 m<sup>2</sup>/g

1st Discharge Capacity: ≥ 200 mAh/g

1st Coulombic Efficiency: ≥ 80%

pH Value: 4.0 - 6.0

Moisture Content: ≤ 0.15%

Magnetic Impurities: ≤ 100 ppb

Li/Na Content: N/A

Ni Content: N/A

Mn Content: N/A

Co Content: N/A

Transition Metals: Iron Fluoride

Crystal Structure: Rhombohedral

Compaction Density: ≥ 1.8 g/cm<sup>3</sup>

Storage Conditions: Sealed, dry

Conductivity: ~10<sup>-10</sup> S/cm

Voltage Range: 1.5 - 4.5 V

Purity: ≥ 99.0%

Primary Application: Conversion-type cathode

Thermal Stability: High

Cycle Life: > 100 cycles

 For Research or Industrial Raw Materials, Not For Personal Medical Use!