

Global Battery Grade Manganese Tetroxide (Mn₃O₄) Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Battery Grade Manganese Tetroxide (Mn₃O₄) market size will reach 164.98 Million USD in 2025 and is projected to reach 1,964.64 Million USD by 2032, with a CAGR of 42.46% (2025-2032). Notably, the China Battery Grade Manganese Tetroxide (Mn₃O₄) market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Battery grade manganese tetroxide (Mn₃O₄) is a compound used as a cathode material in lithium-ion batteries. It is a black or dark brown solid with the chemical formula Mn₃O₄, composed of manganese (Mn) and oxygen (O) atoms. Manganese tetroxide is an important component in lithium-ion battery cathodes due to its high capacity and stability during charge-discharge cycles. It is commonly used in lithium-ion battery chemistries such as lithium manganese oxide (LiMn₂O₄) and lithium-rich layered oxide (Li-rich NMC). Battery grade manganese tetroxide is manufactured with strict quality control to ensure consistent particle size, purity, and electrochemical performance. It provides high energy density, good cycling stability, and thermal stability, making it suitable for various applications, including electric vehicles, portable electronics, and energy storage systems. Additionally, manganese tetroxide is environmentally friendly and cost-effective, contributing to the development of sustainable battery technologies.

The major global manufacturers of Battery Grade Manganese Tetroxide (Mn₃O₄)

include Sinosteel New Materials, Guizhou Dalong Huicheng New Material, Changsha Research Institute of Mining and Metallurgy, Guangxi Menghua Technology, Hunan SF Energy Corporation, Sichuan Zhongzhe New Material Technology, Xiangtan Electrochemical Scientific, Vibrantz Technologies Inc. (Prince), etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Battery Grade Manganese Tetroxide (Mn₃O₄). Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Battery Grade Manganese Tetroxide (Mn₃O₄) market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Battery Grade Manganese Tetroxide (Mn₃O₄) market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Battery Grade Manganese Tetroxide (Mn₃O₄) industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Battery Grade Manganese Tetroxide (Mn₃O₄) Include:

Sinosteel New Materials

Guizhou Dalong Huicheng New Material

Changsha Research Institute of Mining and Metallurgy

Guangxi Menghua Technology

Hunan SF Energy Corporation

Sichuan Zhongzhe New Material Technology

Xiangtan Electrochemical Scientific

Vibrantz Technologies Inc. (Prince)

Battery Grade Manganese Tetroxide (Mn₃O₄) Product Segment Include:

Manganese Ore Method

Manganese Metal Method

Battery Grade Manganese Tetroxide (Mn₃O₄) Product Application Include:

LMO

LMFP

Others

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