

# Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) Nickel Sulfate Market 2018, Forecast to 2023

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## Abstracts

Nickel Sulfate, usually refers to the inorganic compound with the formula  $\text{NiSO}_4 \cdot 6\text{H}_2\text{O}$ . This highly soluble blue-coloured salt is a common source of the  $\text{Ni}^{2+}$  ion for electroplating. At least seven Sulfate salts of nickel (II) are known. These salts differ in terms of their hydration or crystal habit.

The common tetragonal hexahydrate crystallizes from aqueous solution between 30.7 and 53.8 °C. Below these temperatures, a heptahydrate crystallises, and above these temperatures an orthorhombic hexahydrate forms. The yellow anhydrous form,  $\text{NiSO}_4$ , is a high melting solid that is rarely encountered in the laboratory. This material is produced by heating the hydrates above 330 °C. It decomposes at still higher temperatures to nickel oxide.

X-ray crystallography measurements show that  $\text{NiSO}_4 \cdot 6\text{H}_2\text{O}$  consists of the octahedral  $[\text{Ni}(\text{H}_2\text{O})_6]^{2+}$  ions. These ions in turn are hydrogen bonded to Sulfate ions. Dissolution of the salt in water gives solutions containing the aquo complex  $[\text{Ni}(\text{H}_2\text{O})_6]^{2+}$ .

## SCOPE OF THE REPORT:

This report focuses on the Nickel Sulfate in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application. Nickel sulfate industry is relatively fragmented, manufacturers are mostly in the China, Taiwan, Japan and Europe. As for output value, Europe and North America output value accounted for more than 60.38% of the total output value of global nickel sulfate market. Norilsk Nickel is the world leading manufacturer in global nickel sulfate market with the market share of 13.94%, in terms of revenue. In the past few years, as the main raw material price was not stable, with the decrease

in production capacity, expected that the nickel sulfate raw material price might be slightly higher in the short term. Moreover, the improvement of energy, transportation costs, and labor costs, will play a significant role in promoting the cost of nickel sulfate. There are companies adding new capacities and aims at the cost and quality leadership which shall improve profitability. As the same time, companies are focusing on technological innovation, equipment upgrades, and process improvements, to reduce costs and improve quality.

The average price of nickel sulfate will fall further. The product average price declined in the past few years due to the function and technology development, the average price will keep this trend in the few future years due to increasing mature manufacturing technology and cost of raw materials.

The worldwide market for Nickel Sulfate is expected to grow at a CAGR of roughly 3.3% over the next five years, will reach 2260 million US\$ in 2023, from 1850 million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

Norilsk Nickel

Umicore

Sumitomo Metal Mining Co., Ltd. (SMM)

Mechem

Outotec

Nicomet

Coremax

Zenith

SEIDO CHEMICAL INDUSTRY CO., LTD.

Jilin Jien Nickel Industry

Jinchuan

Green Eco-Manufacturer

Jinco Nonferrous

Huaze Cobalt & Nickel

Guangxi Yinyi

Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia and Italy)

Asia-Pacific (China, Japan, Korea, India and Southeast Asia)

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

EN Grade

Plating Grade

High-Purity Grade

Market Segment by Applications, can be divided into

Electroplating

Chemical Industry

Battery

There are 15 Chapters to deeply display the global Nickel Sulfate market.

Chapter 1, to describe Nickel Sulfate Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of Nickel Sulfate, with sales, revenue, and price of Nickel Sulfate, in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share of Nickel Sulfate, for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, Nickel Sulfate market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe Nickel Sulfate sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source

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