

# Global and Regional Nickelous Sulfate Market Research Report 2017

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## Abstracts

### Summary

Nickelous Sulfate, usually refers to the inorganic compound with the formula  $\text{NiSO}_4(\text{H}_2\text{O})_6$ . 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  $[\text{Ni}(\text{H}_2\text{O})_6]^{2+}$ . All nickelous sulfates are paramagnetic

Market Segment as follows:

By Region

Asia-Pacific

North America

Europe

South America

Middle East & Africa

### By Type

EN Grade

Plating Grade

High-Purity Grade

### By Application

Electroplating

Chemical?Industry

Battery

### By Company

Norilsk Nickel

Umicore

Sumitomo Metal Mining Co., Ltd. (SMM)

Mechema

Outotec

Nicomet

Coremax

Zenith

SEIDO CHEMICAL INDUSTRY CO., LTD.

Jilin Jien Nickel Industry

Jinchuan

Green Eco-Manufacturer

Jinco Nonferrous

Huaze Cobalt & Nickel

Guangxi Yinyi

The main contents of the report including:

Section 1: Product definition, type and application, global and regional market overview;

Section 2: Global and regional Market competition by company;

Section 3: Global and regional sales revenue, volume and price by type;

Section 4: Global and regional sales revenue, volume and price by application;

Section 5: Regional export and import;

Section 6: Company information, business overview, sales data and product specifications;

Section 7: Industry chain and raw materials;

Section 8: SWOT and Porter's Five Forces;

Section 9: Conclusion.

## Contents

### 1 MARKET OVERVIEW

#### 1.1 Market Segment Overview

##### 1.1.1 Product Definition

##### 1.1.2 Market by Type

###### 1.1.2.1 EN Grade

###### 1.1.2.2 Plating Grade

###### 1.1.2.3 High-Purity Grade

##### 1.1.3 Market by Application

###### 1.1.3.1 Electroplating

###### 1.1.3.2 Chemical Industry

###### 1.1.3.3 Battery

#### 1.2 Global and Regional Market Size

##### 1.2.1 Global Overview

##### 1.2.2 Market by Region

###### 1.2.2.1 Asia-Pacific

###### 1.2.2.2 North America

###### 1.2.2.3 Europe

###### 1.2.2.4 South America

###### 1.2.2.5 Middle East & Africa

### 2 GLOBAL AND REGIONAL MARKET BY COMPANY

#### 2.1 Global

##### 2.1.1 Global Sales by Company

##### 2.1.2 Global Price by Company

#### 2.2 Asia-Pacific

##### 2.2.1 Asia-Pacific Sales by Company

##### 2.2.2 Asia-Pacific Price by Company

#### 2.3 North America

##### 2.3.1 North America Sales by Company

##### 2.3.2 North America Price by Company

#### 2.4 Europe

##### 2.4.1 Europe Market Sales by Company

##### 2.4.2 Europe Price by Company

#### 2.5 South America

##### 2.5.1 South America Sales by Company

- 2.5.2 South America Price by Company
- 2.6 Middle East & Africa
  - 2.6.1 Middle East & Africa Sales by Company
  - 2.6.2 Middle East & Africa Price by Company

### **3 GLOBAL AND REGIONAL MARKET BY TYPE**

- 3.1 Global
  - 3.1.1 Global Sales by Type
  - 3.1.2 Global Price by Type
- 3.2 Asia-Pacific
  - 3.2.1 Asia-Pacific Sales by Type
  - 3.2.2 Asia-Pacific Price by Type
- 3.3 North America
  - 3.3.1 North America Sales by Type
  - 3.3.2 North America Price by Type
- 3.4 Europe
  - 3.4.1 Europe Market Sales by Type
  - 3.4.2 Europe Price by Type
- 3.5 South America
  - 3.5.1 South America Sales by Type
  - 3.5.2 South America Price by Type
- 3.6 Middle East & Africa
  - 3.6.1 Middle East & Africa Sales by Type
  - 3.6.2 Middle East & Africa Price by Type

### **4 GLOBAL AND REGIONAL MARKET BY APPLICATION**

- 4.1 Global
  - 4.1.1 Global Sales by Application
  - 4.1.2 Global Price by Application
- 4.2 Asia-Pacific
  - 4.2.1 Asia-Pacific Sales by Application
  - 4.2.2 Asia-Pacific Price by Application
- 4.3 North America
  - 4.3.1 North America Sales by Application
  - 4.3.2 North America Price by Application
- 4.4 Europe
  - 4.4.1 Europe Market Sales by Application

- 4.4.2 Europe Price by Application
- 4.5 South America
  - 4.5.1 South America Sales by Application
  - 4.5.2 South America Price by Application
- 4.6 Middle East & Africa
  - 4.6.1 Middle East & Africa Sales by Application
  - 4.6.2 Middle East & Africa Price by Application

## **5 REGIONAL TRADE**

- 5.1 Export
- 5.2 Import

## **6 KEY MANUFACTURERS**

- 6.1 Norilsk Nickel
  - 6.1.2 Company Information
  - 6.1.2 Product Specifications
  - 6.1.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 6.2 Umicore
  - 6.2.1 Company Information
  - 6.2.2 Product Specifications
  - 6.2.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 6.3 Sumitomo Metal Mining Co., Ltd. (SMM)
  - 6.3.1 Company Information
  - 6.3.2 Product Specifications
  - 6.3.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 6.4 Mechemma
  - 6.4.1 Company Information
  - 6.4.2 Product Specifications
  - 6.4.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 6.5 Outotec
  - 6.5.1 Company Information
  - 6.5.2 Product Specifications
  - 6.5.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 6.6 Nicomet
  - 6.6.1 Company Information
  - 6.6.2 Product Specifications
  - 6.6.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

## 6.7 Coremax

6.7.1 Company Information

6.7.2 Product Specifications

6.7.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

## 6.8 Zenith

6.8.1 Company Information

6.8.2 Product Specifications

6.8.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

## 6.9 SEIDO CHEMICAL INDUSTRY CO., LTD.

6.9.1 Company Information

6.9.2 Product Specifications

6.9.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

## 6.10 Jilin Jien Nickel Industry

6.10.1 Company Information

6.10.2 Product Specifications

6.10.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

## 6.11 Jinchuan

## 6.12 Green Eco-Manufacturer

## 6.13 Jinco Nonferrous

## 6.14 Huaze Cobalt & Nickel

## 6.15 Guangxi Yinyi

# 7 INDUSTRY UPSTREAM

## 7.1 Industry Chain

## 7.2 Raw Materials

# 8 MARKET ENVIRONMENT

## 8.1 SWOT

## 8.2 Porter's Five Forces

# 9 CONCLUSION

## List Of Tables

### LIST OF TABLES

Table GLOBAL MARKET SALES REVENUE BY COMPANY 2011-2017
Table Global Market Sales Revenue Share by Company 2011-2017
Table Global Market Sales Volume by Company 2011-2017
Table Global Market Sales Volume Share by Company 2011-2017
Table Global Price by Company 2011-2017
Table Asia-Pacific Market Sales Revenue by Company 2011-2017
Table Asia-Pacific Market Sales Revenue Share by Company 2011-2017
Table Asia-Pacific Market Sales Volume by Company 2011-2017
Table Asia-Pacific Market Sales Volume Share by Company 2011-2017
Table Asia-Pacific Price by Company 2011-2017
Table North America Market Sales Revenue by Company 2011-2017
Table North America Market Sales Revenue Share by Company 2011-2017
Table North America Market Sales Volume by Company 2011-2017
Table North America Market Sales Volume Share by Company 2011-2017
Table North America Price by Company 2011-2017
Table Europe Market Sales Revenue by Company 2011-2017
Table Europe Market Sales Revenue Share by Company 2011-2017
Table Europe Market Sales Volume by Company 2011-2017
Table Europe Market Sales Volume Share by Company 2011-2017
Table Europe Price by Company 2011-2017
Table South America Market Sales Revenue by Company 2011-2017
Table South America Market Sales Revenue Share by Company 2011-2017
Table South America Market Sales Volume by Company 2011-2017
Table South America Market Sales Volume Share by Company 2011-2017
Table South America Price by Company 2011-2017
Table Middle East & Africa Market Sales Revenue by Company 2011-2017
Table Middle East & Africa Market Sales Revenue Share by Company 2011-2017
Table Middle East & Africa Market Sales Volume by Company 2011-2017
Table Middle East & Africa Market Sales Volume Share by Company 2011-2017
Table Middle East & Africa Price by Company 2011-2017
Table Global Market Sales Revenue by Type 2011-2017
Table Global Market Sales Revenue Share by Type 2011-2017
Table Global Market Sales Volume by Type 2011-2017
Table Global Market Sales Volume Share by Type 2011-2017
Table Global Price by Type 2011-2017



Table Asia-Pacific Market Sales Revenue by Type 2011-2017  
Table Asia-Pacific Market Sales Revenue Share by Type 2011-2017  
Table Asia-Pacific Market Sales Volume by Type 2011-2017  
Table Asia-Pacific Market Sales Volume Share by Type 2011-2017  
Table Asia-Pacific Price by Type 2011-2017  
Table North America Market Sales Revenue by Type 2011-2017  
Table North America Market Sales Revenue Share by Type 2011-2017  
Table North America Market Sales Volume by Type 2011-2017  
Table North America Market Sales Volume Share by Type 2011-2017  
Table North America Price by Type 2011-2017  
Table Europe Market Sales Revenue by Type 2011-2017  
Table Europe Market Sales Revenue Share by Type 2011-2017  
Table Europe Market Sales Volume by Type 2011-2017  
Table Europe Market Sales Volume Share by Type 2011-2017  
Table Europe Price by Type 2011-2017  
Table South America Market Sales Revenue by Type 2011-2017  
Table South America Market Sales Revenue Share by Type 2011-2017  
Table South America Market Sales Volume by Type 2011-2017  
Table South America Market Sales Volume Share by Type 2011-2017  
Table South America Price by Type 2011-2017  
Table Middle East & Africa Market Sales Revenue by Type 2011-2017  
Table Middle East & Africa Market Sales Revenue Share by Type 2011-2017  
Table Middle East & Africa Market Sales Volume by Type 2011-2017  
Table Middle East & Africa Market Sales Volume Share by Type 2011-2017  
Table Middle East & Africa Price by Type 2011-2017  
Table Global Market Sales Revenue by Application 2011-2017  
Table Global Market Sales Revenue Share by Application 2011-2017  
Table Global Market Sales Volume by Application 2011-2017  
Table Global Market Sales Volume Share by Application 2011-2017  
Table Global Price by Application 2011-2017  
Table Asia-Pacific Market Sales Revenue by Application 2011-2017  
Table Asia-Pacific Market Sales Revenue Share by Application 2011-2017  
Table Asia-Pacific Market Sales Volume by Application 2011-2017  
Table Asia-Pacific Market Sales Volume Share by Application 2011-2017  
Table Asia-Pacific Price by Application 2011-2017  
Table North America Market Sales Revenue by Application 2011-2017  
Table North America Market Sales Revenue Share by Application 2011-2017  
Table North America Market Sales Volume by Application 2011-2017  
Table North America Market Sales Volume Share by Application 2011-2017

Table North America Price by Application 2011-2017

Table Europe Market Sales Revenue by Application 2011-2017

Table Europe Market Sales Revenue Share by Application 2011-2017

Table Europe Market Sales Volume by Application 2011-2017

Table Europe Market Sales Volume Share by Application 2011-2017

Table Europe Price by Application 2011-2017

Table South America Market Sales Revenue by Application 2011-2017

Table South America Market Sales Revenue Share by Application 2011-2017

Table South America Market Sales Volume by Application 2011-2017

Table South America Market Sales Volume Share by Application 2011-2017

Table South America Price by Application 2011-2017

Table Middle East & Africa Market Sales Revenue by Application 2011-2017

Table Middle East & Africa Market Sales Revenue Share by Application 2011-2017

Table Middle East & Africa Market Sales Volume by Application 2011-2017

Table Middle East & Africa Market Sales Volume Share by Application 2011-2017

Table Middle East & Africa Price by Application 2011-2017

Table Regional Export 2011-2017 (Value)

Table Regional Export 2011-2017 (Volume)

Table Regional Import 2011-2017 (Value)

Table Regional Import 2011-2017 (Volume)

Table Sales Revenue, Volume, Price, Cost and Margin of Norilsk Nickel

Table Sales Revenue, Volume, Price, Cost and Margin of Umicore

Table Sales Revenue, Volume, Price, Cost and Margin of Sumitomo Metal Mining Co., Ltd. (SMM)

Table Sales Revenue, Volume, Price, Cost and Margin of Mechema

Table Sales Revenue, Volume, Price, Cost and Margin of Outotec

Table Sales Revenue, Volume, Price, Cost and Margin of Nicomet

Table Sales Revenue, Volume, Price, Cost and Margin of Coremax

Table Sales Revenue, Volume, Price, Cost and Margin of Zenith

Table Sales Revenue, Volume, Price, Cost and Margin of SEIDO CHEMICAL INDUSTRY CO., LTD.

Table Sales Revenue, Volume, Price, Cost and Margin of Jilin Jien Nickel Industry

Table Sales Revenue, Volume, Price, Cost and Margin of Jinchuan

Table Sales Revenue, Volume, Price, Cost and Margin of Green Eco-Manufacturer

Table Sales Revenue, Volume, Price, Cost and Margin of Jinco Nonferrous

Table Sales Revenue, Volume, Price, Cost and Margin of Huaze Cobalt & Nickel

Table Sales Revenue, Volume, Price, Cost and Margin of Guangxi Yinyi

## List Of Figures

### LIST OF FIGURES

- Figure EN Grade Market Size and CAGR 2011-2017 (Value)
- Figure EN Grade Market Size and CAGR 2011-2017 (Volume)
- Figure EN Grade Market Forecast and CAGR 2018-2025 (Value)
- Figure EN Grade Market Forecast and CAGR 2018-2025 (Volume)
- Figure Plating Grade Market Size and CAGR 2011-2017 (Value)
- Figure Plating Grade Market Size and CAGR 2011-2017 (Volume)
- Figure Plating Grade Market Forecast and CAGR 2018-2025 (Value)
- Figure Plating Grade Market Forecast and CAGR 2018-2025 (Volume)
- Figure High-Purity Grade Market Size and CAGR 2011-2017 (Value)
- Figure High-Purity Grade Market Size and CAGR 2011-2017 (Volume)
- Figure High-Purity Grade Market Forecast and CAGR 2018-2025 (Value)
- Figure High-Purity Grade Market Forecast and CAGR 2018-2025 (Volume)
- Figure Electroplating Market Size and CAGR 2011-2017 (Value)
- Figure Electroplating Market Size and CAGR 2011-2017 (Volume)
- Figure Electroplating Market Forecast and CAGR 2018-2025 (Value)
- Figure Electroplating Market Forecast and CAGR 2018-2025 (Volume)
- Figure Chemical?Industry Market Size and CAGR 2011-2017 (Value)
- Figure Chemical?Industry Market Size and CAGR 2011-2017 (Volume)
- Figure Chemical?Industry Market Forecast and CAGR 2018-2025 (Value)
- Figure Chemical?Industry Market Forecast and CAGR 2018-2025 (Volume)
- Figure Battery Market Size and CAGR 2011-2017 (Value)
- Figure Battery Market Size and CAGR 2011-2017 (Volume)
- Figure Battery Market Forecast and CAGR 2018-2025 (Value)
- Figure Battery Market Forecast and CAGR 2018-2025 (Volume)
- Figure Global Nickelous Sulfate Market Size and CAGR 2011-2017 (Value)
- Figure Global Nickelous Sulfate Market Size and CAGR 2011-2017 (Volume)
- Figure Global Nickelous Sulfate Market Forecast and CAGR 2018-2025 (Value)
- Figure Global Nickelous Sulfate Market Forecast and CAGR 2018-2025 (Volume)
- Figure Asia-Pacific Nickelous Sulfate Market Size and CAGR 2011-2017 (Value)
- Figure Asia-Pacific Nickelous Sulfate Market Size and CAGR 2011-2017 (Volume)
- Figure Asia-Pacific Nickelous Sulfate Market Forecast and CAGR 2018-2025 (Value)
- Figure Asia-Pacific Nickelous Sulfate Market Forecast and CAGR 2018-2025 (Volume)
- Figure North America Nickelous Sulfate Market Size and CAGR 2011-2017 (Value)
- Figure North America Nickelous Sulfate Market Size and CAGR 2011-2017 (Volume)
- Figure North America Nickelous Sulfate Market Forecast and CAGR 2018-2025 (Value)

Figure North America Nickelous Sulfate Market Forecast and CAGR 2018-2025  
(Volume)

Figure Europe Nickelous Sulfate Market Size and CAGR 2011-2017 (Value)

Figure Europe Nickelous Sulfate Market Size and CAGR 2011-2017 (Volume)

Figure Europe Nickelous Sulfate Market Forecast and CAGR 2018-2025 (Value)

Figure Europe Nickelous Sulfate Market Forecast and CAGR 2018-2025 (Volume)

Figure South America Nickelous Sulfate Market Size and CAGR 2011-2017 (Value)

Figure South America Nickelous Sulfate Market Size and CAGR 2011-2017 (Volume)

Figure South America Nickelous Sulfate Market Forecast and CAGR 2018-2025 (Value)

Figure South America Nickelous Sulfate Market Forecast and CAGR 2018-2025  
(Volume)

Figure Middle East & Africa Nickelous Sulfate Market Size and CAGR 2011-2017  
(Value)

Figure Middle East & Africa Nickelous Sulfate Market Size and CAGR 2011-2017  
(Volume)

Figure Middle East & Africa Nickelous Sulfate Market Forecast and CAGR 2018-2025  
(Value)

Figure Middle East & Africa Nickelous Sulfate Market Forecast and CAGR 2018-2025  
(Volume)

Figure Global Market Sales Revenue Share by Company in 2017

Figure Global Market Sales Volume Share by Company in 2017

Figure Asia-Pacific Market Sales Revenue Share by Company in 2017

Figure Asia-Pacific Market Sales Volume Share by Company in 2017

Figure North America Market Sales Revenue Share by Company in 2017

Figure North America Market Sales Volume Share by Company in 2017

Figure Europe Market Sales Revenue Share by Company in 2017

Figure Europe Market Sales Volume Share by Company in 2017

Figure South America Market Sales Revenue Share by Company in 2017

Figure South America Market Sales Volume Share by Company in 2017

Figure Middle East & Africa Market Sales Revenue Share by Company in 2017

Figure Middle East & Africa Market Sales Volume Share by Company in 2017

Figure Global Market Sales Revenue Share by Type in 2017

Figure Global Market Sales Volume Share by Type in 2017

Figure Asia-Pacific Market Sales Revenue Share by Type in 2017

Figure Asia-Pacific Market Sales Volume Share by Type in 2017

Figure North America Market Sales Revenue Share by Type in 2017

Figure North America Market Sales Volume Share by Type in 2017

Figure Europe Market Sales Revenue Share by Type in 2017

Figure Europe Market Sales Volume Share by Type in 2017

Figure South America Market Sales Revenue Share by Type in 2017  
Figure South America Market Sales Volume Share by Type in 2017  
Figure Middle East & Africa Market Sales Revenue Share by Type in 2017  
Figure Middle East & Africa Market Sales Volume Share by Type in 2017  
Figure Global Market Sales Revenue Share by Application in 2017  
Figure Global Market Sales Volume Share by Application in 2017  
Figure Asia-Pacific Market Sales Revenue Share by Application in 2017  
Figure Asia-Pacific Market Sales Volume Share by Application in 2017  
Figure North America Market Sales Revenue Share by Application in 2017  
Figure North America Market Sales Volume Share by Application in 2017  
Figure Europe Market Sales Revenue Share by Application in 2017  
Figure Europe Market Sales Volume Share by Application in 2017  
Figure South America Market Sales Revenue Share by Application in 2017  
Figure South America Market Sales Volume Share by Application in 2017  
Figure Middle East & Africa Market Sales Revenue Share by Application in 2017  
Figure Middle East & Africa Market Sales Volume Share by Application in 2017  
Figure Industry Chain Overview  
Figure Nickelous Sulfate SWOT List  
Figure Chemicals & Materials Porter's Five Forces

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