

Sodium Chloride - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

The Sodium Chloride Market size is estimated at 241.62 million tons in 2025, and is expected to reach 308.37 million tons by 2030, at a CAGR of greater than 5% during the forecast period (2025-2030).

The COVID-19 outbreak in 2020 had a detrimental influence on the market due to the temporary halt in construction operations and the worldwide shutdown of chemical manufacturing facilities. However, the market picked up and is expected to follow a similar projection during the forecast period.

Key Highlights

- The increasing demand for sodium chloride in the food and beverage industry and the demand for pharmaceutical-grade sodium chloride in North America and Europe are expected to fuel the market expansion.
- However, the emergence of numerous alternative chemicals with improved properties that can be utilized as preservatives and deicing agents may stifle market growth.
- The increasing usage of sodium-based batteries and the production of chlor alkali products are expected to offer various opportunities for future market growth.
- Asia-Pacific dominates the market, and North America is predicted to develop quickly throughout the forecast period.

Sodium Chloride Market Trends

The Chemical Production Segment to Dominate the Market

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- Sodium chloride produces many chemicals, including organic and inorganic, and chlor alkali compounds, such as chlorine, soda ash, and caustic soda. These materials are then used to make various products, including polyvinyl chloride (PVC), detergents, glass, dyes, and soaps.
- In addition to being utilized in the production of detergents and the metallurgical industry, sodium carbonate (soda ash) is employed in producing heavy chemicals, including phosphates, silicates, and glass. Limestone and sodium chloride, both of which are inexpensive and widely accessible, are used in the Solvay process. Ammonia and carbon dioxide turn salt and limestone into sodium carbonate.
- In the first half of 2023, about 3,628,468 tonnes of chlorine were produced in EU-27 countries, Norway, Switzerland, and the United Kingdom. However, this was a 19.4% decrease in production volume compared to the first half of 2022. In September 2023, an increase of 2% was observed in chlorine production volume over September 2022.
- According to the report, most chlorine produced was used in the PVC, EDC/VCM application, accounting for approximately 31.6%, followed by isocyanates and oxygenates (30.8%) and inorganics (12.7%).
- According to the US Census Bureau, the value of construction in 2023 was USD 1,978.7 billion, 7% above the USD 1,848.7 billion spent in 2022. It, in turn, enhanced the demand for PVC products and polyurethane-based construction industry materials, such as rigid foam insulation panels.
- Furthermore, caustic soda is used in the Kraft process, which converts wood into wood pulp and is still the dominant method in paper manufacturing. According to the Chlor-Alkali Industry Review, 2,422.5 kilotons of caustic soda were produced in EU-27 countries, Norway, Switzerland, and the United Kingdom till September 2023, with organics accounting for the major share.
- Therefore, based on the factors mentioned above, the chemical products segment is expected to dominate the market in the coming years.

Asia-Pacific to Dominate the Market

- Asia-Pacific dominated the global market share, with rising demand from the chemical industry. China is a hub for chemical processing, accounting for most chemicals produced globally.
- According to the National Bureau of Statistics of China, the country generated over 39 million metric tons of sodium hydroxide, which is used to make chemicals, water treatment, and metal processing. In addition to industrial use, sodium hydroxide is commonly found in domestic cleaning detergents.
- According to the statistics presented by Invest India, the production of major chemicals in India decreased to 53.54 lakh tonnes during 2023-24 (up to August 2023), with over 54.32 lakh tonnes produced during the corresponding period of 2022-2023. However, the production of organic chemicals up to August 2023, as compared to the corresponding period of the previous year, recorded an increase of 4.52%.
- Sodium chloride also serves its purpose in various applications in the pharmaceutical industry. It is used in manufacturing APIs and other products, such as dialysis and infusion solutions, injections, saline drips, and oral rehydration salts.
- According to the India Brand Equity Foundation (IBEF), the Indian pharmaceutical industry is expected to reach ~USD 130 billion by 2030. The country is the largest producer of vaccines worldwide, accounting for around 60% of the total vaccines globally. Additionally, the country ranks third across the globe for pharmaceutical production by volume.
- With the ever-increasing demands in the different sectors related to the sodium chloride market in one way or another, the market for the same is expected to be dominated by Asia-Pacific.

Sodium Chloride Industry Overview

The sodium chloride market is consolidated among the top players. The key players (not in a particular order) include Nouryon,

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Cargill Incorporated, Wacker Chemie AG, INEOS, and Tata Chemicals Europe.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

Table of Contents:

1 INTRODUCTION

1.1 Study Assumptions

1.2 Scope of the Study

2 RESEARCH METHODOLOGY

3 EXECUTIVE SUMMARY

4 MARKET DYNAMICS

4.1 Drivers

4.1.1 Increasing Demand for Sodium Chloride from Food and Beverage Industry

4.1.2 Increasing Demand for Pharmaceutical-grade Sodium Chloride in North America and Europe

4.2 Restraints

4.2.1 Emergence of Numerous Alternative Chemicals that can be Utilized as Preservatives and Deicing Agents

4.2.2 Other Restraints

4.3 Industry Value Chain Analysis

4.4 Porter's Five Forces Analysis

4.4.1 Bargaining Power of Suppliers

4.4.2 Bargaining Power of Consumers

4.4.3 Threat of New Entrants

4.4.4 Threat of Substitute Products and Services

4.4.5 Degree of Competition

5 MARKET SEGMENTATION (Market Size in Volume)

5.1 Grade

5.1.1 Rock Salt

5.1.2 Solar Salt

5.1.3 Vacuum Salt

5.2 Application

5.2.1 Chemical Production

5.2.2 Deicing

5.2.3 Water Conditioning

5.2.4 Agriculture

5.2.5 Food Processing

5.2.6 Pharmaceutical

5.2.7 Other Applications

5.3 Geography

5.3.1 Asia-Pacific

5.3.1.1 China

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- 5.3.1.2 India
- 5.3.1.3 Japan
- 5.3.1.4 South Korea
- 5.3.1.5 Vietnam
- 5.3.1.6 Malaysia
- 5.3.1.7 Indonesia
- 5.3.1.8 Thailand
- 5.3.1.9 Rest of Asia-Pacific
- 5.3.2 North America
 - 5.3.2.1 United States
 - 5.3.2.2 Canada
 - 5.3.2.3 Mexico
- 5.3.3 Europe
 - 5.3.3.1 Germany
 - 5.3.3.2 United Kingdom
 - 5.3.3.3 Italy
 - 5.3.3.4 France
 - 5.3.3.5 Russia
 - 5.3.3.6 Turkey
 - 5.3.3.7 Italy
 - 5.3.3.8 NORDIC
 - 5.3.3.9 Rest of Europe
- 5.3.4 South America
 - 5.3.4.1 Brazil
 - 5.3.4.2 Argentina
 - 5.3.4.3 Colombia
 - 5.3.4.4 Rest of South America
- 5.3.5 Middle East and Africa
 - 5.3.5.1 Saudi Arabia
 - 5.3.5.2 South Africa
 - 5.3.5.3 Qatar
 - 5.3.5.4 Nigeria
 - 5.3.5.5 United Arab Emirates
 - 5.3.5.6 Egypt
 - 5.3.5.7 Rest of Middle East and Africa

6 COMPETITIVE LANDSCAPE

- 6.1 Mergers and Acquisitions, Joint Ventures, Collaborations, and Agreements
- 6.2 Market Share (%)**/Ranking Analysis
- 6.3 Strategies Adopted by Leading Players
- 6.4 Company Profiles
 - 6.4.1 Cargill, Incorporated.
 - 6.4.2 CK Life Sciences Int'l. (Holdings) Inc.
 - 6.4.3 Compass Minerals
 - 6.4.4 INEOS
 - 6.4.5 K+S Aktiengesellschaft
 - 6.4.6 Nouryon

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- 6.4.7 Pon Pure Chemicals Group
- 6.4.8 Rio Tinto
- 6.4.9 Sudwestdeutsche Salzwerke AG
- 6.4.10 Swiss Salt Works AG
- 6.4.11 Tata Chemicals Europe
- 6.4.12 Wacker Chemie AG

7 MARKET OPPORTUNITIES AND FUTURE TRENDS

- 7.1 Increasing Use of Sodium-based Batteries
- 7.2 Increasing Production of Chlor-alkali Products

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