

**Solid Sulfur Market By Application (Sulfuric Acid Synthesis, Sulphonate Surfactants Synthesis, Agrochemicals, Metal Extraction, Oil Refining, Others), By End-Use Industry (Chemical, Agriculture, Rubber, Pulp and Paper, Others): Global Opportunity Analysis and Industry Forecast, 2021-2031**

Market Report | 2022-09-01 | 299 pages | Allied Market Research

**AVAILABLE LICENSES:**

- Cloud Access License \$3456.00
- Business User License \$5730.00
- Enterprise License \$9600.00

**Report description:**

The global solid sulfur market was valued at \$3.4 billion in 2021, and is projected to reach \$4.9 billion by 2031, growing at a CAGR of 3.7% from 2021 to 2031.

Solid sulfur is the most essential raw material in the chemical industry. It occurs in the three forms such as odorless, tasteless, brittle solid, and pale yellow in color. The properties of solid sulfur include poor conductor of electricity, insoluble in nature, and has great stability.

Factors such as rise in global population, increase in the demand for food, growing import and export trade, advancement of technology, and booming agriculture sector have witnessed the significant growth of agriculture industry. For instance, according to an article published by India Brand Equity Foundation in August 2022, the Indian agricultural sector is predicted to increase to US\$ 24 billion by 2025. These factors are enhancing the performance of sulfur in the agriculture sector. Furthermore, sulfur is an essential element for growth functions in plants including enzyme activity, protein, oil synthesis, nitrogen metabolism, and others owing to which it is employed widely on crops as a fertilizer and an essential nutrient in plant and thus, helps in maintaining the crop yields. This is projected to enhance the demand for the solid sulfur market during the forecast period. In addition, government ban and regulation on plastic use have enhanced the performance of rubber industry. Furthermore, rise in demand for synthetic rubber in various end use industry including, automotive, consumer products, industrial, and others have enhanced the growth of rubber industry. For instance, according to an article published by IBIS World in April 2022, the synthetic rubber manufacturing industry is expected to grow by \$2.4bn in 2022. Solid sulfurs are extensively used as an essential ingredient for the formation of cross-links between the rubber and rubber chain in the vulcanization process thus, increasing the elasticity and mechanical properties of rubber. These factors together escalate the growth and potential sales of solid sulfur in the rubber

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scott-international.com](mailto:support@scott-international.com)

[www.scott-international.com](http://www.scott-international.com)

industry.

However, there is numerous side effect linked with using solid sulfur. The exposure comes mainly by absorption of solid sulfur through the skin and the lining of the mouth leading to such exposure has various side effects such as dermatitis, skin irritation, and it may develop allergic reactions. Furthermore, government of developed and developing nations have set up norm and regulation of sulfur production limit has hampered the market. For instance, the IMO 2020 sets regulation limits on sulfur carrying in ships' fuel oil to a maximum 0.50%. The regulation has been in force globally since 1 January 2020, under IMO's MARPOL treaty, with benefits for the environment and human health from a reduction in sulfur oxides in the air. These factors together are predicted to hamper the overall growth of the solid sulfur market.

The increase in the usage of integrated circuits, microchips, transistors, solar cells, and the impact of digitalization across the globe has led to an increase in the production rate of semiconductors. For instance, according to an article published by Semiconductor Industry Association in January 2022, worldwide sales of semiconductors totaled \$152.5 billion during the second quarter of 2022, an increase of 13.3% over the second quarter of 2021 and 0.5% more than the first quarter of 2022. Furthermore, Solid sulfurs are extensively used as adhesive tape in the production and processing of semiconductor components, and helps in protecting the surface of semiconductor wafer during back grinding process. Additionally, it holds semiconductor wafer with ring frame during dicing process. These factors are boosting the Solid sulfurs during the forecast period; thus, offering most lucrative opportunities for the market.

The solid sulfur market is segmented on the basis of by application, end use industry, and region. On the basis of application, the market is categorized into manufacturing of sulfuric acid synthesis, sulphonates surfactants synthesis, agrochemicals, metal extraction, oil refining, and others. On the basis of end use industry, it is divided into chemical, agriculture, rubber, pulp and paper, and others. Region-wise, the market is studied across North America, Europe, Asia-Pacific, and LAMEA.

The major companies profiled in this report include Abu Dhabi National Oil Company, Alfa Aesar, Thermo Fisher Scientific, Bharat Petroleum Co. Ltd, ChemPoint, Enersul Limited Partnership, Georgia Gulf Sulfur Corporation, H.J. Baker, Kuwait petroleum corporation, Merck KGaA, Motiva Enterprises LLC, Repsol, Shell Plc, Sinopec Shanghai Petrochemical Co., Ltd., TCI America, and Valero Energy Corporation. The global solid sulfur market report provides in-depth competitive analysis as well as profiles of these major players.

#### Key Benefits For Stakeholders

- This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the solid sulfur market analysis from 2021 to 2031 to identify the prevailing solid sulfur market opportunities.
- The market research is offered along with information related to key drivers, restraints, and opportunities.
- Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.
- In-depth analysis of the solid sulfur market segmentation assists to determine the prevailing market opportunities.
- Major countries in each region are mapped according to their revenue contribution to the global market.
- Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.
- The report includes the analysis of the regional as well as global solid sulfur market trends, key players, market segments, application areas, and market growth strategies.

#### Key Market Segments

##### By Application

- Sulfuric Acid Synthesis
- Sulphonate Surfactants Synthesis
- Agrochemicals
- Metal Extraction
- Oil Refining
- Others

##### By End-Use Industry

- Chemical

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- Agriculture
- Rubber
- Pulp and Paper
- Others

#### By Region

- North America
- U.S.
- Canada
- Mexico
- Europe
- Germany
- UK
- France
- Spain
- Italy
- Rest of Europe
- Asia-Pacific
- China
- India
- Japan
- South Korea
- Australia
- Rest of Asia-Pacific
- LAMEA
- Brazil
- South Africa,
- Saudi Arabia
- Rest of LAMEA
- Key Market Players
- Abu Dhabi National Oil Company
- Alfa Aesar
- Thermo Fisher Scientific, Inc.
- Bharat Petroleum Corporation Ltd
- ChemPoint
- Enersul Limited Partnership
- Georgia Gulf Sulfur Corporation
- H.J. Baker
- Kuwait Petroleum Corporation
- Merck KGaA
- Motiva Enterprises LLC
- Repsol
- Shell Plc.
- Sinopec Shanghai Petrochemical Co., Ltd.
- TCI America
- Valero Energy Corporation

#### **Table of Contents:**

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

## CHAPTER 1:INTRODUCTION

- 1.1.Report description
- 1.2.Key market segments
- 1.3.Key benefits to the stakeholders
- 1.4.Research Methodology
  - 1.4.1.Secondary research
  - 1.4.2.Primary research
  - 1.4.3.Analyst tools and models

## CHAPTER 2:EXECUTIVE SUMMARY

- 2.1.Key findings of the study
- 2.2.CXO Perspective

## CHAPTER 3:MARKET OVERVIEW

- 3.1.Market definition and scope
- 3.2.Key findings
  - 3.2.1.Top investment pockets
- 3.3.Porter's five forces analysis
- 3.4.Top player positioning
- 3.5.Market dynamics
  - 3.5.1.Drivers
  - 3.5.2.Restraints
  - 3.5.3.Opportunities
- 3.6.COVID-19 Impact Analysis on the market
- 3.7.Pricing Analysis
- 3.8.Regulatory Guidelines
- 3.9.Value Chain Analysis
- 3.10.Key Regulation Analysis
- 3.11.Patent Landscape

## CHAPTER 4: SOLID SULFUR MARKET, BY APPLICATION

- 4.1 Overview
  - 4.1.1 Market size and forecast
- 4.2 Sulfuric Acid Synthesis
  - 4.2.1 Key market trends, growth factors and opportunities
  - 4.2.2 Market size and forecast, by region
  - 4.2.3 Market share analysis by country
- 4.3 Sulphonate Surfactants Synthesis
  - 4.3.1 Key market trends, growth factors and opportunities
  - 4.3.2 Market size and forecast, by region
  - 4.3.3 Market share analysis by country
- 4.4 Agrochemicals
  - 4.4.1 Key market trends, growth factors and opportunities
  - 4.4.2 Market size and forecast, by region
  - 4.4.3 Market share analysis by country
- 4.5 Metal Extraction
  - 4.5.1 Key market trends, growth factors and opportunities
  - 4.5.2 Market size and forecast, by region
  - 4.5.3 Market share analysis by country
- 4.6 Oil Refining

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

- 4.6.1 Key market trends, growth factors and opportunities
  - 4.6.2 Market size and forecast, by region
  - 4.6.3 Market share analysis by country
  - 4.7 Others
  - 4.7.1 Key market trends, growth factors and opportunities
  - 4.7.2 Market size and forecast, by region
  - 4.7.3 Market share analysis by country
- CHAPTER 5: SOLID SULFUR MARKET, BY END-USE INDUSTRY

- 5.1 Overview
- 5.1.1 Market size and forecast
- 5.2 Chemical
- 5.2.1 Key market trends, growth factors and opportunities
- 5.2.2 Market size and forecast, by region
- 5.2.3 Market share analysis by country
- 5.3 Agriculture
- 5.3.1 Key market trends, growth factors and opportunities
- 5.3.2 Market size and forecast, by region
- 5.3.3 Market share analysis by country
- 5.4 Rubber
- 5.4.1 Key market trends, growth factors and opportunities
- 5.4.2 Market size and forecast, by region
- 5.4.3 Market share analysis by country
- 5.5 Pulp and Paper
- 5.5.1 Key market trends, growth factors and opportunities
- 5.5.2 Market size and forecast, by region
- 5.5.3 Market share analysis by country
- 5.6 Others
- 5.6.1 Key market trends, growth factors and opportunities
- 5.6.2 Market size and forecast, by region
- 5.6.3 Market share analysis by country

CHAPTER 6: SOLID SULFUR MARKET, BY REGION

- 6.1 Overview
- 6.1.1 Market size and forecast
- 6.2 North America
- 6.2.1 Key trends and opportunities
- 6.2.2 North America Market size and forecast, by Application
- 6.2.3 North America Market size and forecast, by End-Use Industry
- 6.2.4 North America Market size and forecast, by country
- 6.2.4.1 U.S.
- 6.2.4.1.1 Key market trends, growth factors and opportunities
- 6.2.4.1.2 Market size and forecast, by Application
- 6.2.4.1.3 Market size and forecast, by End-Use Industry
- 6.2.4.2 Canada
- 6.2.4.2.1 Key market trends, growth factors and opportunities
- 6.2.4.2.2 Market size and forecast, by Application
- 6.2.4.2.3 Market size and forecast, by End-Use Industry
- 6.2.4.3 Mexico

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

- 6.2.4.3.1 Key market trends, growth factors and opportunities
- 6.2.4.3.2 Market size and forecast, by Application
- 6.2.4.3.3 Market size and forecast, by End-Use Industry
- 6.3 Europe
- 6.3.1 Key trends and opportunities
- 6.3.2 Europe Market size and forecast, by Application
- 6.3.3 Europe Market size and forecast, by End-Use Industry
- 6.3.4 Europe Market size and forecast, by country
- 6.3.4.1 Germany
- 6.3.4.1.1 Key market trends, growth factors and opportunities
- 6.3.4.1.2 Market size and forecast, by Application
- 6.3.4.1.3 Market size and forecast, by End-Use Industry
- 6.3.4.2 UK
- 6.3.4.2.1 Key market trends, growth factors and opportunities
- 6.3.4.2.2 Market size and forecast, by Application
- 6.3.4.2.3 Market size and forecast, by End-Use Industry
- 6.3.4.3 France
- 6.3.4.3.1 Key market trends, growth factors and opportunities
- 6.3.4.3.2 Market size and forecast, by Application
- 6.3.4.3.3 Market size and forecast, by End-Use Industry
- 6.3.4.4 Spain
- 6.3.4.4.1 Key market trends, growth factors and opportunities
- 6.3.4.4.2 Market size and forecast, by Application
- 6.3.4.4.3 Market size and forecast, by End-Use Industry
- 6.3.4.5 Italy
- 6.3.4.5.1 Key market trends, growth factors and opportunities
- 6.3.4.5.2 Market size and forecast, by Application
- 6.3.4.5.3 Market size and forecast, by End-Use Industry
- 6.3.4.6 Rest of Europe
- 6.3.4.6.1 Key market trends, growth factors and opportunities
- 6.3.4.6.2 Market size and forecast, by Application
- 6.3.4.6.3 Market size and forecast, by End-Use Industry
- 6.4 Asia-Pacific
- 6.4.1 Key trends and opportunities
- 6.4.2 Asia-Pacific Market size and forecast, by Application
- 6.4.3 Asia-Pacific Market size and forecast, by End-Use Industry
- 6.4.4 Asia-Pacific Market size and forecast, by country
- 6.4.4.1 China
- 6.4.4.1.1 Key market trends, growth factors and opportunities
- 6.4.4.1.2 Market size and forecast, by Application
- 6.4.4.1.3 Market size and forecast, by End-Use Industry
- 6.4.4.2 India
- 6.4.4.2.1 Key market trends, growth factors and opportunities
- 6.4.4.2.2 Market size and forecast, by Application
- 6.4.4.2.3 Market size and forecast, by End-Use Industry
- 6.4.4.3 Japan
- 6.4.4.3.1 Key market trends, growth factors and opportunities

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

- 6.4.4.3.2 Market size and forecast, by Application
- 6.4.4.3.3 Market size and forecast, by End-Use Industry
- 6.4.4.4 South Korea
  - 6.4.4.4.1 Key market trends, growth factors and opportunities
  - 6.4.4.4.2 Market size and forecast, by Application
  - 6.4.4.4.3 Market size and forecast, by End-Use Industry
- 6.4.4.5 Australia
  - 6.4.4.5.1 Key market trends, growth factors and opportunities
  - 6.4.4.5.2 Market size and forecast, by Application
  - 6.4.4.5.3 Market size and forecast, by End-Use Industry
- 6.4.4.6 Rest of Asia-Pacific
  - 6.4.4.6.1 Key market trends, growth factors and opportunities
  - 6.4.4.6.2 Market size and forecast, by Application
  - 6.4.4.6.3 Market size and forecast, by End-Use Industry
- 6.5 LAMEA
  - 6.5.1 Key trends and opportunities
  - 6.5.2 LAMEA Market size and forecast, by Application
  - 6.5.3 LAMEA Market size and forecast, by End-Use Industry
  - 6.5.4 LAMEA Market size and forecast, by country
    - 6.5.4.1 Brazil
      - 6.5.4.1.1 Key market trends, growth factors and opportunities
      - 6.5.4.1.2 Market size and forecast, by Application
      - 6.5.4.1.3 Market size and forecast, by End-Use Industry
    - 6.5.4.2 South Africa,
      - 6.5.4.2.1 Key market trends, growth factors and opportunities
      - 6.5.4.2.2 Market size and forecast, by Application
      - 6.5.4.2.3 Market size and forecast, by End-Use Industry
    - 6.5.4.3 Saudi Arabia
      - 6.5.4.3.1 Key market trends, growth factors and opportunities
      - 6.5.4.3.2 Market size and forecast, by Application
      - 6.5.4.3.3 Market size and forecast, by End-Use Industry
    - 6.5.4.4 Rest of LAMEA
      - 6.5.4.4.1 Key market trends, growth factors and opportunities
      - 6.5.4.4.2 Market size and forecast, by Application
      - 6.5.4.4.3 Market size and forecast, by End-Use Industry

## CHAPTER 7: COMPANY LANDSCAPE

- 7.1. Introduction
- 7.2. Top winning strategies
- 7.3. Product Mapping of Top 10 Player
- 7.4. Competitive Dashboard
- 7.5. Competitive Heatmap
- 7.6. Key developments

## CHAPTER 8: COMPANY PROFILES

- 8.1 Abu Dhabi National Oil Company
  - 8.1.1 Company overview
  - 8.1.2 Company snapshot
  - 8.1.3 Operating business segments

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

- 8.1.4 Product portfolio
- 8.1.5 Business performance
- 8.1.6 Key strategic moves and developments
- 8.2 Alfa Aesar
  - 8.2.1 Company overview
  - 8.2.2 Company snapshot
  - 8.2.3 Operating business segments
  - 8.2.4 Product portfolio
  - 8.2.5 Business performance
  - 8.2.6 Key strategic moves and developments
- 8.3 Thermo Fisher Scientific, Inc.
  - 8.3.1 Company overview
  - 8.3.2 Company snapshot
  - 8.3.3 Operating business segments
  - 8.3.4 Product portfolio
  - 8.3.5 Business performance
  - 8.3.6 Key strategic moves and developments
- 8.4 Bharat Petroleum Corporation Ltd
  - 8.4.1 Company overview
  - 8.4.2 Company snapshot
  - 8.4.3 Operating business segments
  - 8.4.4 Product portfolio
  - 8.4.5 Business performance
  - 8.4.6 Key strategic moves and developments
- 8.5 ChemPoint
  - 8.5.1 Company overview
  - 8.5.2 Company snapshot
  - 8.5.3 Operating business segments
  - 8.5.4 Product portfolio
  - 8.5.5 Business performance
  - 8.5.6 Key strategic moves and developments
- 8.6 Enersul Limited Partnership
  - 8.6.1 Company overview
  - 8.6.2 Company snapshot
  - 8.6.3 Operating business segments
  - 8.6.4 Product portfolio
  - 8.6.5 Business performance
  - 8.6.6 Key strategic moves and developments
- 8.7 Georgia Gulf Sulfur Corporation
  - 8.7.1 Company overview
  - 8.7.2 Company snapshot
  - 8.7.3 Operating business segments
  - 8.7.4 Product portfolio
  - 8.7.5 Business performance
  - 8.7.6 Key strategic moves and developments
- 8.8 H.J. Baker
  - 8.8.1 Company overview

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

- 8.8.2 Company snapshot
- 8.8.3 Operating business segments
- 8.8.4 Product portfolio
- 8.8.5 Business performance
- 8.8.6 Key strategic moves and developments
- 8.9 kuwait petroleum corporation
  - 8.9.1 Company overview
  - 8.9.2 Company snapshot
  - 8.9.3 Operating business segments
  - 8.9.4 Product portfolio
  - 8.9.5 Business performance
  - 8.9.6 Key strategic moves and developments
- 8.10 Merck KGaA
  - 8.10.1 Company overview
  - 8.10.2 Company snapshot
  - 8.10.3 Operating business segments
  - 8.10.4 Product portfolio
  - 8.10.5 Business performance
  - 8.10.6 Key strategic moves and developments
- 8.11 motiva enterprises llc
  - 8.11.1 Company overview
  - 8.11.2 Company snapshot
  - 8.11.3 Operating business segments
  - 8.11.4 Product portfolio
  - 8.11.5 Business performance
  - 8.11.6 Key strategic moves and developments
- 8.12 Repsol
  - 8.12.1 Company overview
  - 8.12.2 Company snapshot
  - 8.12.3 Operating business segments
  - 8.12.4 Product portfolio
  - 8.12.5 Business performance
  - 8.12.6 Key strategic moves and developments
- 8.13 Shell Plc.
  - 8.13.1 Company overview
  - 8.13.2 Company snapshot
  - 8.13.3 Operating business segments
  - 8.13.4 Product portfolio
  - 8.13.5 Business performance
  - 8.13.6 Key strategic moves and developments
- 8.14 sinopec shanghai petrochemical co., ltd.
  - 8.14.1 Company overview
  - 8.14.2 Company snapshot
  - 8.14.3 Operating business segments
  - 8.14.4 Product portfolio
  - 8.14.5 Business performance
  - 8.14.6 Key strategic moves and developments

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

- 8.15 TCI America
  - 8.15.1 Company overview
  - 8.15.2 Company snapshot
  - 8.15.3 Operating business segments
  - 8.15.4 Product portfolio
  - 8.15.5 Business performance
  - 8.15.6 Key strategic moves and developments
- 8.16 Valero Energy Corporation
  - 8.16.1 Company overview
  - 8.16.2 Company snapshot
  - 8.16.3 Operating business segments
  - 8.16.4 Product portfolio
  - 8.16.5 Business performance
  - 8.16.6 Key strategic moves and developments

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

**Solid Sulfur Market By Application (Sulfuric Acid Synthesis, Sulphonate Surfactants Synthesis, Agrochemicals, Metal Extraction, Oil Refining, Others), By End-Use Industry (Chemical, Agriculture, Rubber, Pulp and Paper, Others): Global Opportunity Analysis and Industry Forecast, 2021-2031**

Market Report | 2022-09-01 | 299 pages | Allied Market Research

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scotts-international.com

**ORDER FORM:**

| Select license | License               | Price     |
|----------------|-----------------------|-----------|
|                | Cloud Access License  | \$3456.00 |
|                | Business User License | \$5730.00 |
|                | Enterprise License    | \$9600.00 |
|                |                       | VAT       |
|                |                       | Total     |

\*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

\*\* VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

|               |                      |                               |                      |
|---------------|----------------------|-------------------------------|----------------------|
| Email*        | <input type="text"/> | Phone*                        | <input type="text"/> |
| First Name*   | <input type="text"/> | Last Name*                    | <input type="text"/> |
| Job title*    | <input type="text"/> |                               |                      |
| Company Name* | <input type="text"/> | EU Vat / Tax ID / NIP number* | <input type="text"/> |
| Address*      | <input type="text"/> | City*                         | <input type="text"/> |
| Zip Code*     | <input type="text"/> | Country*                      | <input type="text"/> |

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Date

2026-03-04

Signature

A large, empty rectangular box intended for a signature.

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)