

Sulphonated Naphthalene Formaldehyde Global Market Insights 2025, Analysis and Forecast to 2030, by Manufacturers, Regions, Technology, Application

<https://marketpublishers.com/r/S7DB2D5F9B7DEN.html>

Date: March 2025

Pages: 84

Price: US\$ 3,200.00 (Single User License)

ID: S7DB2D5F9B7DEN

Abstracts

Sulphonated Naphthalene Formaldehyde Market Summary

Introduction

Sulphonated Naphthalene Formaldehyde (SNF) is a chemical derivative of naphthalene, produced through sulphonation and neutralization with caustic soda, commonly used as a superplasticizer in concrete admixtures for the construction industry and as an anti-friction agent in oil rigging operations. Available in 100% powder form or as a liquid with 40%-45% solid content, SNF enhances concrete workability and reduces water content, while also providing lubrication benefits in oil applications. The SNF industry is a specialized segment of the global chemical additives market, characterized by its reliance on naphthalene-based raw materials, cost-effective production processes, and adaptability to industrial needs. The market is driven by steady demand from construction and oil sectors in select regions, particularly in developing economies. However, it faces significant challenges from the widespread replacement by more efficient polycarboxylate superplasticizers in Europe, North America, and parts of Asia Pacific, as well as raw material price volatility and regulatory pressures, shaping its growth in a competitive landscape.

Market Size and Growth Forecast

The global Sulphonated Naphthalene Formaldehyde market is estimated at approximately USD 35 to 45 million in 2025, with a projected compound annual growth rate (CAGR) of 1.5% to 2.0% from 2025 to 2030, reaching USD 38 to 50 million by 2030. This modest growth reflects stable demand in specific regions, tempered by substitution trends and market maturity in developed economies.

Regional Analysis

North America: Holding 2-5% of the market share, North America grows at 0-1%. The United States has largely replaced SNF with polycarboxylate superplasticizers in construction, limiting demand to niche oil applications. Trends focus on advanced alternatives, with minimal market presence.

Europe: Accounting for 2-5% of the market share, Europe grows at 0-1%. Germany, France, and the UK have shifted to more efficient superplasticizers, relegating SNF to minor industrial uses. Trends emphasize sustainability and high-performance admixtures, constraining SNF growth.

Asia Pacific: Representing 40-45% of the market share, this region grows at 2-3%. India is a primary consumer due to its robust construction sector, while China, Japan, and South Korea have largely transitioned to polycarboxylates, reducing SNF use. Southeast Asian countries like Indonesia and Thailand sustain demand, with trends focusing on cost-effective construction solutions.

MEA: With a 45-56% share, this region grows at 2-3%. Middle Eastern and African (MEA) countries like Saudi Arabia and Egypt, alongside Brazil, drive consumption in construction and oil applications. Trends highlight affordable admixtures and infrastructure development in emerging economies.

Application Analysis

The market is segmented by application, with growth trends reflecting industrial demands:

Superplasticizer: Expected to grow at 1.5-2%, used as a water-reducing admixture in concrete for construction. Trends focus on cost-effective performance in developing markets, though substitution by polycarboxylates limits growth in advanced regions.

Oil: Projected at 2-3%, functioning as an anti-friction agent in oil rigging. Trends emphasize steady demand in oil-producing regions like the Middle East, supporting drilling efficiency.

Others: Anticipated at 1-2%, covering minor industrial uses. Trends explore niche applications in chemical processing and specialty formulations.

Key Market Players

Leading companies in the Sulphonated Naphthalene Formaldehyde market include: Himadri Speciality Chemical Ltd: A major supplier of SNF for construction and industrial applications.

Gujarat Polysol Chemicals Limited: Specializes in chemical admixtures, including SNF products.

Henan Kingsun Chemical: Provides SNF for concrete and oil industries, focusing on cost efficiency.

Chemanol: Offers SNF solutions for regional construction and oil markets.
Sprea Misr: Supplies SNF for industrial applications in emerging economies.
These firms compete on production scale, cost, and regional market penetration.

Porter's Five Forces Analysis

Threat of New Entrants: Medium; moderate capital and technical requirements allow entry, but established players and substitution trends deter significant new competition.

Threat of Substitutes: High; polycarboxylate superplasticizers and other advanced admixtures increasingly replace SNF, particularly in developed markets, challenging its dominance.

Bargaining Power of Buyers: High; large construction and oil firms negotiate pricing and quality, leveraging availability of substitutes to pressure SNF suppliers.

Bargaining Power of Suppliers: Medium; reliance on naphthalene and caustic soda gives suppliers some leverage, though diversified sourcing mitigates risks.

Competitive Rivalry: High; key players compete on cost, production efficiency, and market reach in remaining SNF-strong regions, driving price competition.

Market Opportunities and Challenges

Opportunities:

- Steady construction demand in India and Southeast Asia sustains SNF use as a cost-effective superplasticizer.
- Growth in oil rigging operations in MEA regions, particularly Saudi Arabia, boosts demand for SNF as an anti-friction agent.
- Emerging infrastructure projects in developing economies offer potential for SNF in concrete applications.

Challenges:

- Widespread replacement by polycarboxylate superplasticizers in Europe, North America, and parts of Asia Pacific limits market expansion.
- Raw material price volatility, especially for naphthalene, challenges cost stability and profitability.
- Regulatory pressures on chemical production and environmental impact require greener practices, increasing operational costs.

Contents

CHAPTER 1 EXECUTIVE SUMMARY

CHAPTER 2 ABBREVIATION AND ACRONYMS

CHAPTER 3 PREFACE

- 3.1 Research Scope
- 3.2 Research Sources
 - 3.2.1 Data Sources
 - 3.2.2 Assumptions
- 3.3 Research Method

CHAPTER 4 MARKET LANDSCAPE

- 4.1 Market Overview
- 4.2 Classification/Types
- 4.3 Application/End Users

CHAPTER 5 MARKET TREND ANALYSIS

- 5.1 Introduction
- 5.2 Drivers
- 5.3 Restraints
- 5.4 Opportunities
- 5.5 Threats

CHAPTER 6 INDUSTRY CHAIN ANALYSIS

- 6.1 Upstream/Suppliers Analysis
- 6.2 Sulphonated Naphthalene Formaldehyde Analysis
 - 6.2.1 Technology Analysis
 - 6.2.2 Cost Analysis
 - 6.2.3 Market Channel Analysis
- 6.3 Downstream Buyers/End Users

CHAPTER 7 LATEST MARKET DYNAMICS

- 7.1 Latest News
- 7.2 Merger and Acquisition
- 7.3 Planned/Future Project
- 7.4 Policy Dynamics

CHAPTER 8 TRADING ANALYSIS

- 8.1 Export of Sulphonated Naphthalene Formaldehyde by Region
- 8.2 Import of Sulphonated Naphthalene Formaldehyde by Region
- 8.3 Balance of Trade

CHAPTER 9 HISTORICAL AND FORECAST SULPHONATED NAPHTHALENE FORMALDEHYDE MARKET IN ASIA & PACIFIC (2020-2030)

- 9.1 Sulphonated Naphthalene Formaldehyde Market Size
- 9.2 Sulphonated Naphthalene Formaldehyde Demand by End Use
- 9.3 Competition by Players/Suppliers
- 9.4 Type Segmentation and Price
- 9.5 Key Countries Analysis
 - 9.5.1 China
 - 9.5.2 India
 - 9.5.3 Southeast Asia

CHAPTER 10 HISTORICAL AND FORECAST SULPHONATED NAPHTHALENE FORMALDEHYDE MARKET IN MEA (2020-2030)

- 10.1 Sulphonated Naphthalene Formaldehyde Market Size
- 10.2 Sulphonated Naphthalene Formaldehyde Demand by End Use
- 10.3 Competition by Players/Suppliers
- 10.4 Type Segmentation and Price
- 10.5 Key Countries Analysis
 - 10.5.1 Egypt
 - 10.5.2 Israel
 - 10.5.3 South Africa
 - 10.5.4 Gulf Cooperation Council Countries
 - 10.5.5 Turkey

CHAPTER 11 SUMMARY FOR GLOBAL SULPHONATED NAPHTHALENE FORMALDEHYDE MARKET (2020-2025)

- 11.1 Sulphonated Naphthalene Formaldehyde Market Size
- 11.2 Sulphonated Naphthalene Formaldehyde Demand by End Use
- 11.3 Competition by Players/Suppliers
- 11.4 Type Segmentation and Price

CHAPTER 12 GLOBAL SULPHONATED NAPHTHALENE FORMALDEHYDE MARKET FORECAST (2025-2030)

- 12.1 Sulphonated Naphthalene Formaldehyde Market Size Forecast
- 12.2 Sulphonated Naphthalene Formaldehyde Demand Forecast
- 12.3 Competition by Players/Suppliers
- 12.4 Type Segmentation and Price Forecast

CHAPTER 13 ANALYSIS OF GLOBAL KEY VENDORS

- 13.1 Himadri Speciality Chemical Ltd
 - 13.1.1 Company Profile
 - 13.1.2 Main Business and Sulphonated Naphthalene Formaldehyde Information
 - 13.1.3 SWOT Analysis of Himadri Speciality Chemical Ltd
 - 13.1.4 Himadri Speciality Chemical Ltd Sulphonated Naphthalene Formaldehyde Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.2 Gujarat Polysol Chemicals Limited
 - 13.2.1 Company Profile
 - 13.2.2 Main Business and Sulphonated Naphthalene Formaldehyde Information
 - 13.2.3 SWOT Analysis of Gujarat Polysol Chemicals Limited
 - 13.2.4 Gujarat Polysol Chemicals Limited Sulphonated Naphthalene Formaldehyde Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.3 Henan Kingsun Chemical
 - 13.3.1 Company Profile
 - 13.3.2 Main Business and Sulphonated Naphthalene Formaldehyde Information
 - 13.3.3 SWOT Analysis of Henan Kingsun Chemical
 - 13.3.4 Henan Kingsun Chemical Sulphonated Naphthalene Formaldehyde Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.4 Chemanol
 - 13.4.1 Company Profile
 - 13.4.2 Main Business and Sulphonated Naphthalene Formaldehyde Information
 - 13.4.3 SWOT Analysis of Chemanol
 - 13.4.4 Chemanol Sulphonated Naphthalene Formaldehyde Sales, Revenue, Price and

Gross Margin (2020-2025)

13.5 Sprea Misr

13.5.1 Company Profile

13.5.2 Main Business and Sulphonated Naphthalene Formaldehyde Information

13.5.3 SWOT Analysis of Sprea Misr

13.5.4 Sprea Misr Sulphonated Naphthalene Formaldehyde Sales, Revenue, Price and Gross Margin (2020-2025)

Please ask for sample pages for full companies list

Tables and Figures

Table Abbreviation and Acronyms List

Table Research Scope of Sulphonated Naphthalene Formaldehyde Report

Table Data Sources of Sulphonated Naphthalene Formaldehyde Report

Table Major Assumptions of Sulphonated Naphthalene Formaldehyde Report

Figure Market Size Estimated Method

Figure Major Forecasting Factors

Figure Sulphonated Naphthalene Formaldehyde Picture

Table Sulphonated Naphthalene Formaldehyde Classification

Table Sulphonated Naphthalene Formaldehyde Applications List

Table Drivers of Sulphonated Naphthalene Formaldehyde Market

Table Restraints of Sulphonated Naphthalene Formaldehyde Market

Table Opportunities of Sulphonated Naphthalene Formaldehyde Market

Table Threats of Sulphonated Naphthalene Formaldehyde Market

Table Raw Materials Suppliers List

Table Different Production Methods of Sulphonated Naphthalene Formaldehyde

Table Cost Structure Analysis of Sulphonated Naphthalene Formaldehyde

Table Key End Users List

Table Latest News of Sulphonated Naphthalene Formaldehyde Market

Table Merger and Acquisition List

Table Planned/Future Project of Sulphonated Naphthalene Formaldehyde Market

Table Policy of Sulphonated Naphthalene Formaldehyde Market

Table 2020-2030 Regional Export of Sulphonated Naphthalene Formaldehyde

Table 2020-2030 Regional Import of Sulphonated Naphthalene Formaldehyde

Table 2020-2030 Regional Trade Balance

Figure 2020-2030 Regional Trade Balance

Table 2020-2030 Asia & Pacific Sulphonated Naphthalene Formaldehyde Market Size and Market Volume List

Figure 2020-2030 Asia & Pacific Sulphonated Naphthalene Formaldehyde Market Size and CAGR

Figure 2020-2030 Asia & Pacific Sulphonated Naphthalene Formaldehyde Market

Volume and CAGR

Table 2020-2030 Asia & Pacific Sulphonated Naphthalene Formaldehyde Demand List by Application

Table 2020-2025 Asia & Pacific Sulphonated Naphthalene Formaldehyde Key Players Sales List

Table 2020-2025 Asia & Pacific Sulphonated Naphthalene Formaldehyde Key Players Market Share List

Table 2020-2030 Asia & Pacific Sulphonated Naphthalene Formaldehyde Demand List by Type

Table 2020-2025 Asia & Pacific Sulphonated Naphthalene Formaldehyde Price List by Type

Table 2020-2030 China Sulphonated Naphthalene Formaldehyde Market Size and Market Volume List

Table 2020-2030 China Sulphonated Naphthalene Formaldehyde Import & Export List

Table 2020-2030 India Sulphonated Naphthalene Formaldehyde Market Size and Market Volume List

Table 2020-2030 India Sulphonated Naphthalene Formaldehyde Import & Export List

Table 2020-2030 Southeast Asia Sulphonated Naphthalene Formaldehyde Market Size List

Table 2020-2030 Southeast Asia Sulphonated Naphthalene Formaldehyde Market Volume List

Table 2020-2030 Southeast Asia Sulphonated Naphthalene Formaldehyde Import List

Table 2020-2030 Southeast Asia Sulphonated Naphthalene Formaldehyde Export List

Table 2020-2030 MEA Sulphonated Naphthalene Formaldehyde Market Size and Market Volume List

Figure 2020-2030 MEA Sulphonated Naphthalene Formaldehyde Market Size and CAGR

Figure 2020-2030 MEA Sulphonated Naphthalene Formaldehyde Market Volume and CAGR

Table 2020-2030 MEA Sulphonated Naphthalene Formaldehyde Demand List by Application

Table 2020-2025 MEA Sulphonated Naphthalene Formaldehyde Key Players Sales List

Table 2020-2025 MEA Sulphonated Naphthalene Formaldehyde Key Players Market Share List

Table 2020-2030 MEA Sulphonated Naphthalene Formaldehyde Demand List by Type

Table 2020-2025 MEA Sulphonated Naphthalene Formaldehyde Price List by Type

Table 2020-2030 Egypt Sulphonated Naphthalene Formaldehyde Market Size and Market Volume List

Table 2020-2030 Egypt Sulphonated Naphthalene Formaldehyde Import & Export List

Table 2020-2030 Israel Sulphonated Naphthalene Formaldehyde Market Size and Market Volume List

Table 2020-2030 Israel Sulphonated Naphthalene Formaldehyde Import & Export List

Table 2020-2030 South Africa Sulphonated Naphthalene Formaldehyde Market Size and Market Volume List

Table 2020-2030 South Africa Sulphonated Naphthalene Formaldehyde Import & Export List

Table 2020-2030 Gulf Cooperation Council Countries Sulphonated Naphthalene Formaldehyde Market Size and Market Volume List

Table 2020-2030 Gulf Cooperation Council Countries Sulphonated Naphthalene Formaldehyde Import & Export List

Table 2020-2030 Turkey Sulphonated Naphthalene Formaldehyde Market Size and Market Volume List

Table 2020-2030 Turkey Sulphonated Naphthalene Formaldehyde Import & Export List

Table 2020-2025 Global Sulphonated Naphthalene Formaldehyde Market Size List by Region

Table 2020-2025 Global Sulphonated Naphthalene Formaldehyde Market Size Share List by Region

Table 2020-2025 Global Sulphonated Naphthalene Formaldehyde Market Volume List by Region

Table 2020-2025 Global Sulphonated Naphthalene Formaldehyde Market Volume Share List by Region

Table 2020-2025 Global Sulphonated Naphthalene Formaldehyde Demand List by Application

Table 2020-2025 Global Sulphonated Naphthalene Formaldehyde Demand Market Share List by Application

Table 2020-2025 Global Sulphonated Naphthalene Formaldehyde Capacity List

Table 2020-2025 Global Sulphonated Naphthalene Formaldehyde Key Vendors Capacity Share List

Table 2020-2025 Global Sulphonated Naphthalene Formaldehyde Key Vendors Production List

Table 2020-2025 Global Sulphonated Naphthalene Formaldehyde Key Vendors Production Share List

Figure 2020-2025 Global Sulphonated Naphthalene Formaldehyde Capacity Production and Growth Rate

Table 2020-2025 Global Sulphonated Naphthalene Formaldehyde Key Vendors Production Value List

Figure 2020-2025 Global Sulphonated Naphthalene Formaldehyde Production Value and Growth Rate

Table 2020-2025 Global Sulphonated Naphthalene Formaldehyde Key Vendors Production Value Share List
Table 2020-2025 Global Sulphonated Naphthalene Formaldehyde Demand List by Type
Table 2020-2025 Global Sulphonated Naphthalene Formaldehyde Demand Market Share List by Type
Table 2020-2025 Regional Sulphonated Naphthalene Formaldehyde Price List
Table 2025-2030 Global Sulphonated Naphthalene Formaldehyde Market Size List by Region
Table 2025-2030 Global Sulphonated Naphthalene Formaldehyde Market Size Share List by Region
Table 2025-2030 Global Sulphonated Naphthalene Formaldehyde Market Volume List by Region
Table 2025-2030 Global Sulphonated Naphthalene Formaldehyde Market Volume Share List by Region
Table 2025-2030 Global Sulphonated Naphthalene Formaldehyde Demand List by Application
Table 2025-2030 Global Sulphonated Naphthalene Formaldehyde Demand Market Share List by Application
Table 2025-2030 Global Sulphonated Naphthalene Formaldehyde Capacity List
Table 2025-2030 Global Sulphonated Naphthalene Formaldehyde Key Vendors Capacity Share List
Table 2025-2030 Global Sulphonated Naphthalene Formaldehyde Key Vendors Production List
Table 2025-2030 Global Sulphonated Naphthalene Formaldehyde Key Vendors Production Share List
Figure 2025-2030 Global Sulphonated Naphthalene Formaldehyde Capacity Production and Growth Rate
Table 2025-2030 Global Sulphonated Naphthalene Formaldehyde Key Vendors Production Value List
Figure 2025-2030 Global Sulphonated Naphthalene Formaldehyde Production Value and Growth Rate
Table 2025-2030 Global Sulphonated Naphthalene Formaldehyde Key Vendors Production Value Share List
Table 2025-2030 Global Sulphonated Naphthalene Formaldehyde Demand List by Type
Table 2025-2030 Global Sulphonated Naphthalene Formaldehyde Demand Market Share List by Type
Table 2025-2030 Sulphonated Naphthalene Formaldehyde Regional Price List
Table Himadri Speciality Chemical Ltd Information
Table SWOT Analysis of Himadri Speciality Chemical Ltd

Table 2020-2025 Himadri Speciality Chemical Ltd Sulphonated Naphthalene Formaldehyde Product Capacity Production Price Cost Production Value
Figure 2020-2025 Himadri Speciality Chemical Ltd Sulphonated Naphthalene Formaldehyde Capacity Production and Growth Rate
Figure 2020-2025 Himadri Speciality Chemical Ltd Sulphonated Naphthalene Formaldehyde Market Share
Table Gujarat Polysol Chemicals Limited Information
Table SWOT Analysis of Gujarat Polysol Chemicals Limited
Table 2020-2025 Gujarat Polysol Chemicals Limited Sulphonated Naphthalene Formaldehyde Product Capacity Production Price Cost Production Value
Figure 2020-2025 Gujarat Polysol Chemicals Limited Sulphonated Naphthalene Formaldehyde Capacity Production and Growth Rate
Figure 2020-2025 Gujarat Polysol Chemicals Limited Sulphonated Naphthalene Formaldehyde Market Share
Table Henan Kingsun Chemical Information
Table SWOT Analysis of Henan Kingsun Chemical
Table 2020-2025 Henan Kingsun Chemical Sulphonated Naphthalene Formaldehyde Product Capacity Production Price Cost Production Value
Figure 2020-2025 Henan Kingsun Chemical Sulphonated Naphthalene Formaldehyde Capacity Production and Growth Rate
Figure 2020-2025 Henan Kingsun Chemical Sulphonated Naphthalene Formaldehyde Market Share
Table Chemanol Information
Table SWOT Analysis of Chemanol
Table 2020-2025 Chemanol Sulphonated Naphthalene Formaldehyde Product Capacity Production Price Cost Production Value
Figure 2020-2025 Chemanol Sulphonated Naphthalene Formaldehyde Capacity Production and Growth Rate
Figure 2020-2025 Chemanol Sulphonated Naphthalene Formaldehyde Market Share
Table Sprea Misr Information
Table SWOT Analysis of Sprea Misr
Table 2020-2025 Sprea Misr Sulphonated Naphthalene Formaldehyde Product Capacity Production Price Cost Production Value
Figure 2020-2025 Sprea Misr Sulphonated Naphthalene Formaldehyde Capacity Production and Growth Rate
Figure 2020-2025 Sprea Misr Sulphonated Naphthalene Formaldehyde Market Share
Table Gujarat Polybonds Pvt Ltd. Information
Table SWOT Analysis of Gujarat Polybonds Pvt Ltd.
Table 2020-2025 Gujarat Polybonds Pvt Ltd. Sulphonated Naphthalene Formaldehyde

Product Capacity Production Price Cost Production Value

Figure 2020-2025 Gujarat Polybonds Pvt Ltd. Sulphonated Naphthalene Formaldehyde

Capacity Production and Growth Rate

Figure 2020-2025 Gujarat Polybonds Pvt Ltd. Sulphonated Naphthalene Formaldehyde

Market Share

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