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Global CNSL Modified Phenolic Resin Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global CNSL Modified Phenolic Resin market size is expected to reach $ 167 million by 2032, rising at a market growth of 4.2% CAGR during the forecast period (2026-2032).

CNSL Modified Phenolic Resin is a type of biobased modified phenolic resin produced from phenol, formaldehyde, and cashew nut shell liquid (CNSL), or its principal derivative, cardanol, through co-condensation, grafting, or blending modification. The phenolic hydroxyl groups in CNSL can participate in phenol–formaldehyde condensation reactions, while its long unsaturated hydrocarbon chains impart improved flexibility, toughness, water resistance, and interfacial compatibility. These characteristics help overcome the relatively high brittleness and limited impact resistance of conventional phenolic resin. Commercial products include thermosetting phenolic resin and thermoplastic phenolic resin and may be supplied in liquid, flake, or powder form.

Key Findings

CNSL Modified Phenolic Resin is mainly used in friction material and rubber product applications

Thermoplastic phenolic resin represents the principal commercial product type

Product performance focuses on toughening, tackification, thermal resistance, and wear resistance

Asia is an important production and consumption region for the product

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Competition centers on specialized grades, product consistency, and customer qualification

Market Trends

CNSL Modified Phenolic Resin is progressing from general-purpose toughening and tackification toward lower free-phenol content, reduced volatile emissions, higher thermal resistance, and application-specific formulation. Downstream customers increasingly evaluate braking noise, thermal fade, wear, mechanical strength, and long-term stability as an integrated performance package, encouraging manufacturers to strengthen molecular design, curing-system optimization, and joint application development. Biobased content supports product differentiation, but commercial competition continues to depend primarily on performance consistency and customer qualification.

Market Dynamics

Drivers

Demand for high-toughness, heat-resistant, and low-noise binder systems in automotive brake pads, commercial-vehicle linings, clutch facings, railway braking components, and industrial friction material is a principal market driver. CNSL modification reduces the brittleness of conventional phenolic resin and improves vibration damping, wear behavior, and thermal stability. Continued upgrading of tack, processing performance, and aging resistance in tire and technical rubber formulations also creates stable demand for thermoplastic grades.

Restraints

CNSL is a naturally derived feedstock, and differences in origin, refining quality, and phenolic composition may affect resin color, viscosity, reactivity, and batch consistency. Price fluctuations in phenol, formaldehyde, hexamine, and solvents can place pressure on production costs and profitability. Friction material and rubber customers generally require lengthy formulation testing, performance validation, and supplier qualification, making it difficult for new grades to replace established products rapidly.

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Opportunities

Low-free-monomer, solvent-free, high-solids, and low-odor products offer substantial upgrade potential by helping downstream customers improve working conditions and reduce volatile emissions. Requirements for lower noise, corrosion resistance, thermal stability, and long-term consistency in electric vehicles, premium passenger cars, railway transportation, and industrial braking systems create opportunities for specialized friction resin grades. Adjustments to CNSL modification level, molecular weight, softening point, and curing speed may also extend applications in high-performance rubber, coating, and adhesive formulations.

Challenges

Product development requires a balance among flexibility, bond strength, thermal resistance, flow, and curing efficiency. Excessive CNSL modification may reduce high-temperature mechanical performance or alter the molding window. Significant differences in fibers, fillers, friction modifiers, and rubber systems among customers limit product standardization. Conventional phenolic resin, rubber-modified phenolic resin, epoxy-modified phenolic resin, and other biobased resin technologies also create continuing substitution pressure.

Industry Chain Analysis

The upstream chain primarily consists of cashew nut shell liquid, cardanol, phenol, formaldehyde, hexamine, catalysts, and solvents. CNSL refining quality and compositional stability determine the consistency of the biobased modification structure, while phenol and formaldehyde remain important contributors to base resin cost. Midstream manufacturing includes feedstock pretreatment, condensation, molecular-weight control, devolatilization, curing-system design, granulation, and grinding, producing commercial grades with different resin types, softening points, and supply forms.

Value creation is concentrated in molecular design, softening-point and curing-rate control, free-monomer management, batch consistency, and end-use formulation support. Friction material customers require reliable compatibility with fibers, metal powders, fillers, and friction modifiers, whereas rubber customers focus on mixing

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dispersion, initial tack, vulcanization behavior, and aging resistance. Manufacturers with end-use testing and joint-development capabilities can generally achieve greater product value than suppliers of general-purpose phenolic resin.

Segment Insights

By resin type, thermoplastic phenolic resin is primarily used in dry-process friction material, rubber tackification, and formulations requiring a separately added curing agent, offering favorable storage stability and processing flexibility. Thermosetting phenolic resin is mainly used in liquid binding, impregnation, and directly heat-curable systems and is better suited to applications requiring a continuous resin phase and strong initial adhesion. The two product groups are complementary, with selection determined by molding process, curing mechanism, and end-use performance requirements.

By softening point, low-softening-point grades provide stronger melt flow, wetting, and dispersion and are suited to formulations emphasizing processability, flexibility, and lower molding temperatures. High-softening-point grades place greater emphasis on thermal resistance, dimensional stability, and high-temperature mechanical retention. Softening point must be evaluated together with polymerization speed, free-phenol content, curing-agent content, and filler composition rather than treated as a standalone performance indicator.

Downstream Market Opportunities

Friction material remains the downstream market with the strongest commercial scale and technical barriers. Opportunities are concentrated in passenger-vehicle brake pads, commercial-vehicle linings, railway braking components, clutch facings, and industrial friction parts requiring improved performance. Rubber product demand mainly concerns tackification, processing modification, and aging resistance in tire and technical rubber formulations. Coating and adhesive demand is more fragmented but offers differentiated potential in moisture-resistant, anticorrosive, flexible, and biobased systems.

Regional Insights

Asia is the most important production and consumption region for CNSL Modified Phenolic Resin, with Japan and China forming the principal manufacturing cluster.

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Japanese producers have accumulated expertise in specialized grades, long-term consistency, and qualification by higher-end customers. Chinese manufacturers are expanding market coverage through an established phenolic resin industry chain, scalable manufacturing, and local customer support. The region also has a concentrated manufacturing base for automotive components, tires, friction material, and technical rubber goods.

North America has strong capabilities in CNSL chemistry, specialty resin design, and technical service for international customers, with products generally positioned toward higher-value and customized applications. European demand places greater emphasis on low volatile emissions, regulatory compliance, biobased characteristics, and supply-chain sustainability. Regional competitive advantages therefore differ across feedstock technology, application qualification, cost control, and customer responsiveness.

Competitive Landscape Analysis

The CNSL Modified Phenolic Resin market includes international specialty resin producers, established Japanese phenolic resin companies, and integrated Chinese manufacturers. Cardolite Corporation and SI Group have strong foundations in specialty resin technology, global customer coverage, and application support. Sumitomo Bakelite and Cashew Co. differentiate through specialized grades for friction material and rubber applications, product consistency, and customer qualification. Jinan Shengquan Group, Sino Legend (China) Chemical, Willing New Materials Technology, and Hangmo New Materials Group compete through scalable phenolic resin manufacturing, local supply chains, and cooperative customer development. Competition is shifting from basic resin supply toward lower volatile emissions, thermal-fade control, noise and vibration performance, batch consistency, and customized formulation capability. Available reliable information does not support precise company market-share or ranking conclusions.

Report Scope

This report studies the global CNSL Modified Phenolic Resin production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for CNSL Modified Phenolic Resin and provides market size (US$ million) and Year-over-Year

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(YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of CNSL Modified Phenolic Resin that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global CNSL Modified Phenolic Resin total production and demand, 2021-2032, (Tons)

Global CNSL Modified Phenolic Resin total production value, 2021-2032, (USD Million)

Global CNSL Modified Phenolic Resin production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global CNSL Modified Phenolic Resin consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: CNSL Modified Phenolic Resin domestic production, consumption, key domestic manufacturers and share

Global CNSL Modified Phenolic Resin production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global CNSL Modified Phenolic Resin production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global CNSL Modified Phenolic Resin production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global CNSL Modified Phenolic Resin market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Cardolite Corporation, Sumitomo Bakelite, Cashew, SI Group, Jinan Shengquan Group, Sino Legend (China) Chemical, Willing New Materials Technology, Hangmo New Materials Group, etc.

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This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World CNSL Modified Phenolic Resin market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Tons) and average price (US$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global CNSL Modified Phenolic Resin Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global CNSL Modified Phenolic Resin Market, Segmentation by Type:

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Thermosetting Phenolic Resin

Thermoplastic Phenolic Resin

Global CNSL Modified Phenolic Resin Market, Segmentation by Softening Point:

Low Softening Point (?90°C)

High Softening Point (>90°C)

Global CNSL Modified Phenolic Resin Market, Segmentation by Application:

Friction Material

Rubber Product

Coating and Adhesive

Other

Companies Profiled:

Cardolite Corporation

Sumitomo Bakelite

Cashew

SI Group

Jinan Shengquan Group

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Sino Legend (China) Chemical

Willing New Materials Technology

Hangmo New Materials Group

Key Questions Answered

1. How big is the global CNSL Modified Phenolic Resin market?
2. What is the demand of the global CNSL Modified Phenolic Resin market?
3. What is the year over year growth of the global CNSL Modified Phenolic Resin market?
4. What is the total value of the global CNSL Modified Phenolic Resin market?
5. Who are the Major Players in the global CNSL Modified Phenolic Resin market?
6. What are the growth factors driving the market demand?

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Contents

1 SUPPLY SUMMARY

1.1 CNSL Modified Phenolic Resin Introduction
1.2 World CNSL Modified Phenolic Resin Supply & Forecast
  1.2.1 World CNSL Modified Phenolic Resin Production Value (2021 & 2025 & 2032)
  1.2.2 World CNSL Modified Phenolic Resin Production (2021-2032)
  1.2.3 World CNSL Modified Phenolic Resin Pricing Trends (2021-2032)
1.3 World CNSL Modified Phenolic Resin Production by Region (Based on Production Site)
  1.3.1 World CNSL Modified Phenolic Resin Production Value by Region (2021-2032)
  1.3.2 World CNSL Modified Phenolic Resin Production by Region (2021-2032)
  1.3.3 World CNSL Modified Phenolic Resin Average Price by Region (2021-2032)
  1.3.4 North America CNSL Modified Phenolic Resin Production (2021-2032)
  1.3.5 Japan CNSL Modified Phenolic Resin Production (2021-2032)
  1.3.6 China CNSL Modified Phenolic Resin Production (2021-2032)
1.4 Market Drivers, Restraints and Trends
  1.4.1 CNSL Modified Phenolic Resin Market Drivers
  1.4.2 Factors Affecting Demand
  1.4.3 CNSL Modified Phenolic Resin Major Market Trends

2 DEMAND SUMMARY

2.1 World CNSL Modified Phenolic Resin Demand (2021-2032)
2.2 World CNSL Modified Phenolic Resin Consumption by Region
  2.2.1 World CNSL Modified Phenolic Resin Consumption by Region (2021-2026)
  2.2.2 World CNSL Modified Phenolic Resin Consumption Forecast by Region (2027-2032)
2.3 United States CNSL Modified Phenolic Resin Consumption (2021-2032)
2.4 China CNSL Modified Phenolic Resin Consumption (2021-2032)
2.5 Europe CNSL Modified Phenolic Resin Consumption (2021-2032)
2.6 Japan CNSL Modified Phenolic Resin Consumption (2021-2032)
2.7 South Korea CNSL Modified Phenolic Resin Consumption (2021-2032)
2.8 ASEAN CNSL Modified Phenolic Resin Consumption (2021-2032)
2.9 India CNSL Modified Phenolic Resin Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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3.1 World CNSL Modified Phenolic Resin Production Value by Manufacturer (2021-2026)
3.2 World CNSL Modified Phenolic Resin Production by Manufacturer (2021-2026)
3.3 World CNSL Modified Phenolic Resin Average Price by Manufacturer (2021-2026)
3.4 CNSL Modified Phenolic Resin Company Evaluation Quadrant
3.5 Industry Rank and Concentration Rate (CR)
  3.5.1 Global CNSL Modified Phenolic Resin Industry Rank of Major Manufacturers
  3.5.2 Global Concentration Ratios (CR4) for CNSL Modified Phenolic Resin in 2025
  3.5.3 Global Concentration Ratios (CR8) for CNSL Modified Phenolic Resin in 2025
3.6 CNSL Modified Phenolic Resin Market: Overall Company Footprint Analysis
  3.6.1 CNSL Modified Phenolic Resin Market: Region Footprint
  3.6.2 CNSL Modified Phenolic Resin Market: Company Product Type Footprint
  3.6.3 CNSL Modified Phenolic Resin Market: Company Product Application Footprint
3.7 Competitive Environment
  3.7.1 Historical Structure of the Industry
  3.7.2 Barriers of Market Entry
  3.7.3 Factors of Competition
3.8 New Entrant and Capacity Expansion Plans
3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: CNSL Modified Phenolic Resin Production Value Comparison
  4.1.1 United States VS China: CNSL Modified Phenolic Resin Production Value Comparison (2021 & 2025 & 2032)
  4.1.2 United States VS China: CNSL Modified Phenolic Resin Production Value Market Share Comparison (2021 & 2025 & 2032)
4.2 United States VS China: CNSL Modified Phenolic Resin Production Comparison
  4.2.1 United States VS China: CNSL Modified Phenolic Resin Production Comparison (2021 & 2025 & 2032)
  4.2.2 United States VS China: CNSL Modified Phenolic Resin Production Market Share Comparison (2021 & 2025 & 2032)
4.3 United States VS China: CNSL Modified Phenolic Resin Consumption Comparison
  4.3.1 United States VS China: CNSL Modified Phenolic Resin Consumption Comparison (2021 & 2025 & 2032)
  4.3.2 United States VS China: CNSL Modified Phenolic Resin Consumption Market Share Comparison (2021 & 2025 & 2032)
4.4 United States Based CNSL Modified Phenolic Resin Manufacturers and Market

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Share, 2021-2026
4.4.1 United States Based CNSL Modified Phenolic Resin Manufacturers, Headquarters and Production Site (States, Country)
4.4.2 United States Based Manufacturers CNSL Modified Phenolic Resin Production Value (2021-2026)
4.4.3 United States Based Manufacturers CNSL Modified Phenolic Resin Production (2021-2026)
4.5 China Based CNSL Modified Phenolic Resin Manufacturers and Market Share
4.5.1 China Based CNSL Modified Phenolic Resin Manufacturers, Headquarters and Production Site (Province, Country)
4.5.2 China Based Manufacturers CNSL Modified Phenolic Resin Production Value (2021-2026)
4.5.3 China Based Manufacturers CNSL Modified Phenolic Resin Production (2021-2026)
4.6 Rest of World Based CNSL Modified Phenolic Resin Manufacturers and Market Share, 2021-2026
4.6.1 Rest of World Based CNSL Modified Phenolic Resin Manufacturers, Headquarters and Production Site (State, Country)
4.6.2 Rest of World Based Manufacturers CNSL Modified Phenolic Resin Production Value (2021-2026)
4.6.3 Rest of World Based Manufacturers CNSL Modified Phenolic Resin Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World CNSL Modified Phenolic Resin Market Size Overview by Type: 2021 VS 2025 VS 2032
5.2 Segment Introduction by Type
5.2.1 Thermosetting Phenolic Resin
5.2.2 Thermoplastic Phenolic Resin
5.3 Market Segment by Type
5.3.1 World CNSL Modified Phenolic Resin Production by Type (2021-2032)
5.3.2 World CNSL Modified Phenolic Resin Production Value by Type (2021-2032)
5.3.3 World CNSL Modified Phenolic Resin Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY SOFTENING POINT

6.1 World CNSL Modified Phenolic Resin Market Size Overview by Softening Point: 2021 VS 2025 VS 2032

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6.2 Segment Introduction by Softening Point
6.2.1 Low Softening Point (?90°C)
6.2.2 High Softening Point (>90°C)
6.3 Market Segment by Softening Point
6.3.1 World CNSL Modified Phenolic Resin Production by Softening Point (2021-2032)
6.3.2 World CNSL Modified Phenolic Resin Production Value by Softening Point (2021-2032)
6.3.3 World CNSL Modified Phenolic Resin Average Price by Softening Point (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World CNSL Modified Phenolic Resin Market Size Overview by Application: 2021 VS 2025 VS 2032
7.2 Segment Introduction by Application
7.2.1 Friction Material
7.2.2 Rubber Product
7.2.3 Coating and Adhesive
7.2.4 Other
7.3 Market Segment by Application
7.3.1 World CNSL Modified Phenolic Resin Production by Application (2021-2032)
7.3.2 World CNSL Modified Phenolic Resin Production Value by Application (2021-2032)
7.3.3 World CNSL Modified Phenolic Resin Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 Cardolite Corporation
8.1.1 Cardolite Corporation Details
8.1.2 Cardolite Corporation Major Business
8.1.3 Cardolite Corporation CNSL Modified Phenolic Resin Product and Services
8.1.4 Cardolite Corporation CNSL Modified Phenolic Resin Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.1.5 Cardolite Corporation Recent Developments/Updates
8.1.6 Cardolite Corporation Competitive Strengths & Weaknesses
8.2 Sumitomo Bakelite
8.2.1 Sumitomo Bakelite Details
8.2.2 Sumitomo Bakelite Major Business
8.2.3 Sumitomo Bakelite CNSL Modified Phenolic Resin Product and Services

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8.2.4 Sumitomo Bakelite CNSL Modified Phenolic Resin Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.2.5 Sumitomo Bakelite Recent Developments/Updates
8.2.6 Sumitomo Bakelite Competitive Strengths & Weaknesses
8.3 Cashew
8.3.1 Cashew Details
8.3.2 Cashew Major Business
8.3.3 Cashew CNSL Modified Phenolic Resin Product and Services
8.3.4 Cashew CNSL Modified Phenolic Resin Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.3.5 Cashew Recent Developments/Updates
8.3.6 Cashew Competitive Strengths & Weaknesses
8.4 SI Group
8.4.1 SI Group Details
8.4.2 SI Group Major Business
8.4.3 SI Group CNSL Modified Phenolic Resin Product and Services
8.4.4 SI Group CNSL Modified Phenolic Resin Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.4.5 SI Group Recent Developments/Updates
8.4.6 SI Group Competitive Strengths & Weaknesses
8.5 Jinan Shengquan Group
8.5.1 Jinan Shengquan Group Details
8.5.2 Jinan Shengquan Group Major Business
8.5.3 Jinan Shengquan Group CNSL Modified Phenolic Resin Product and Services
8.5.4 Jinan Shengquan Group CNSL Modified Phenolic Resin Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.5.5 Jinan Shengquan Group Recent Developments/Updates
8.5.6 Jinan Shengquan Group Competitive Strengths & Weaknesses
8.6 Sino Legend (China) Chemical
8.6.1 Sino Legend (China) Chemical Details
8.6.2 Sino Legend (China) Chemical Major Business
8.6.3 Sino Legend (China) Chemical CNSL Modified Phenolic Resin Product and Services
8.6.4 Sino Legend (China) Chemical CNSL Modified Phenolic Resin Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.6.5 Sino Legend (China) Chemical Recent Developments/Updates
8.6.6 Sino Legend (China) Chemical Competitive Strengths & Weaknesses
8.7 Willing New Materials Technology
8.7.1 Willing New Materials Technology Details

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8.7.2 Willing New Materials Technology Major Business
8.7.3 Willing New Materials Technology CNSL Modified Phenolic Resin Product and Services
8.7.4 Willing New Materials Technology CNSL Modified Phenolic Resin Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.7.5 Willing New Materials Technology Recent Developments/Updates
8.7.6 Willing New Materials Technology Competitive Strengths & Weaknesses
8.8 Hangmo New Materials Group
8.8.1 Hangmo New Materials Group Details
8.8.2 Hangmo New Materials Group Major Business
8.8.3 Hangmo New Materials Group CNSL Modified Phenolic Resin Product and Services
8.8.4 Hangmo New Materials Group CNSL Modified Phenolic Resin Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.8.5 Hangmo New Materials Group Recent Developments/Updates
8.8.6 Hangmo New Materials Group Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

9.1 CNSL Modified Phenolic Resin Industry Chain
9.2 CNSL Modified Phenolic Resin Upstream Analysis
9.2.1 CNSL Modified Phenolic Resin Core Raw Materials
9.2.2 Main Manufacturers of CNSL Modified Phenolic Resin Core Raw Materials
9.3 Midstream Analysis
9.4 Downstream Analysis
9.5 CNSL Modified Phenolic Resin Production Mode
9.6 CNSL Modified Phenolic Resin Procurement Model
9.7 CNSL Modified Phenolic Resin Industry Sales Model and Sales Channels
9.7.1 CNSL Modified Phenolic Resin Sales Model
9.7.2 CNSL Modified Phenolic Resin Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology
11.2 Research Process and Data Source
11.3 Disclaimer

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List Of Tables

LIST OF TABLES

Table 1. World CNSL Modified Phenolic Resin Production Value by Region (2021, 2025 and 2032) & (USD Million)
Table 2. World CNSL Modified Phenolic Resin Production Value by Region (2021-2026) & (USD Million)
Table 3. World CNSL Modified Phenolic Resin Production Value by Region (2027-2032) & (USD Million)
Table 4. World CNSL Modified Phenolic Resin Production Value Market Share by Region (2021-2026)
Table 5. World CNSL Modified Phenolic Resin Production Value Market Share by Region (2027-2032)
Table 6. World CNSL Modified Phenolic Resin Production by Region (2021-2026) & (Tons)
Table 7. World CNSL Modified Phenolic Resin Production by Region (2027-2032) & (Tons)
Table 8. World CNSL Modified Phenolic Resin Production Market Share by Region (2021-2026)
Table 9. World CNSL Modified Phenolic Resin Production Market Share by Region (2027-2032)
Table 10. World CNSL Modified Phenolic Resin Average Price by Region (2021-2026) & (US$/Ton)
Table 11. World CNSL Modified Phenolic Resin Average Price by Region (2027-2032) & (US$/Ton)
Table 12. CNSL Modified Phenolic Resin Major Market Trends
Table 13. World CNSL Modified Phenolic Resin Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)
Table 14. World CNSL Modified Phenolic Resin Consumption by Region (2021-2026) & (Tons)
Table 15. World CNSL Modified Phenolic Resin Consumption Forecast by Region (2027-2032) & (Tons)
Table 16. World CNSL Modified Phenolic Resin Production Value by Manufacturer (2021-2026) & (USD Million)
Table 17. Production Value Market Share of Key CNSL Modified Phenolic Resin Producers in 2025
Table 18. World CNSL Modified Phenolic Resin Production by Manufacturer (2021-2026) & (Tons)

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info@marketpublishers.com

Table 19. Production Market Share of Key CNSL Modified Phenolic Resin Producers in 2025
Table 20. World CNSL Modified Phenolic Resin Average Price by Manufacturer (2021-2026) & (US$/Ton)
Table 21. Global CNSL Modified Phenolic Resin Company Evaluation Quadrant
Table 22. World CNSL Modified Phenolic Resin Industry Rank of Major Manufacturers, Based on Production Value in 2025
Table 23. Head Office and CNSL Modified Phenolic Resin Production Site of Key Manufacturer
Table 24. CNSL Modified Phenolic Resin Market: Company Product Type Footprint
Table 25. CNSL Modified Phenolic Resin Market: Company Product Application Footprint
Table 26. CNSL Modified Phenolic Resin Competitive Factors
Table 27. CNSL Modified Phenolic Resin New Entrant and Capacity Expansion Plans
Table 28. CNSL Modified Phenolic Resin Mergers & Acquisitions Activity
Table 29. United States VS China CNSL Modified Phenolic Resin Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China CNSL Modified Phenolic Resin Production Comparison, (2021 & 2025 & 2032) & (Tons)
Table 31. United States VS China CNSL Modified Phenolic Resin Consumption Comparison, (2021 & 2025 & 2032) & (Tons)
Table 32. United States Based CNSL Modified Phenolic Resin Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers CNSL Modified Phenolic Resin Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers CNSL Modified Phenolic Resin Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers CNSL Modified Phenolic Resin Production (2021-2026) & (Tons)
Table 36. United States Based Manufacturers CNSL Modified Phenolic Resin Production Market Share (2021-2026)
Table 37. China Based CNSL Modified Phenolic Resin Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers CNSL Modified Phenolic Resin Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers CNSL Modified Phenolic Resin Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers CNSL Modified Phenolic Resin Production, (2021-2026) & (Tons)

+357 96 030922
info@marketpublishers.com

Table 41. China Based Manufacturers CNSL Modified Phenolic Resin Production Market Share (2021-2026)
Table 42. Rest of World Based CNSL Modified Phenolic Resin Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers CNSL Modified Phenolic Resin Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers CNSL Modified Phenolic Resin Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers CNSL Modified Phenolic Resin Production, (2021-2026) & (Tons)
Table 46. Rest of World Based Manufacturers CNSL Modified Phenolic Resin Production Market Share (2021-2026)
Table 47. World CNSL Modified Phenolic Resin Production Value by Type, (USD Million), 2021 & 2025 & 2032
Table 48. World CNSL Modified Phenolic Resin Production by Type (2021-2026) & (Tons)
Table 49. World CNSL Modified Phenolic Resin Production by Type (2027-2032) & (Tons)
Table 50. World CNSL Modified Phenolic Resin Production Value by Type (2021-2026) & (USD Million)
Table 51. World CNSL Modified Phenolic Resin Production Value by Type (2027-2032) & (USD Million)
Table 52. World CNSL Modified Phenolic Resin Average Price by Type (2021-2026) & (US$/Ton)
Table 53. World CNSL Modified Phenolic Resin Average Price by Type (2027-2032) & (US$/Ton)
Table 54. World CNSL Modified Phenolic Resin Production Value by Softening Point, (USD Million), 2021 & 2025 & 2032
Table 55. World CNSL Modified Phenolic Resin Production by Softening Point (2021-2026) & (Tons)
Table 56. World CNSL Modified Phenolic Resin Production by Softening Point (2027-2032) & (Tons)
Table 57. World CNSL Modified Phenolic Resin Production Value by Softening Point (2021-2026) & (USD Million)
Table 58. World CNSL Modified Phenolic Resin Production Value by Softening Point (2027-2032) & (USD Million)
Table 59. World CNSL Modified Phenolic Resin Average Price by Softening Point (2021-2026) & (US$/Ton)
Table 60. World CNSL Modified Phenolic Resin Average Price by Softening Point

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(2027-2032) & (US$/Ton)
Table 61. World CNSL Modified Phenolic Resin Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 62. World CNSL Modified Phenolic Resin Production by Application (2021-2026) & (Tons)
Table 63. World CNSL Modified Phenolic Resin Production by Application (2027-2032) & (Tons)
Table 64. World CNSL Modified Phenolic Resin Production Value by Application (2021-2026) & (USD Million)
Table 65. World CNSL Modified Phenolic Resin Production Value by Application (2027-2032) & (USD Million)
Table 66. World CNSL Modified Phenolic Resin Average Price by Application (2021-2026) & (US$/Ton)
Table 67. World CNSL Modified Phenolic Resin Average Price by Application (2027-2032) & (US$/Ton)
Table 68. Cardolite Corporation Basic Information, Manufacturing Base and Competitors
Table 69. Cardolite Corporation Major Business
Table 70. Cardolite Corporation CNSL Modified Phenolic Resin Product and Services
Table 71. Cardolite Corporation CNSL Modified Phenolic Resin Production (Tons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 72. Cardolite Corporation Recent Developments/Updates
Table 73. Cardolite Corporation Competitive Strengths & Weaknesses
Table 74. Sumitomo Bakelite Basic Information, Manufacturing Base and Competitors
Table 75. Sumitomo Bakelite Major Business
Table 76. Sumitomo Bakelite CNSL Modified Phenolic Resin Product and Services
Table 77. Sumitomo Bakelite CNSL Modified Phenolic Resin Production (Tons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 78. Sumitomo Bakelite Recent Developments/Updates
Table 79. Sumitomo Bakelite Competitive Strengths & Weaknesses
Table 80. Cashew Basic Information, Manufacturing Base and Competitors
Table 81. Cashew Major Business
Table 82. Cashew CNSL Modified Phenolic Resin Product and Services
Table 83. Cashew CNSL Modified Phenolic Resin Production (Tons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 84. Cashew Recent Developments/Updates
Table 85. Cashew Competitive Strengths & Weaknesses

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Table 86. SI Group Basic Information, Manufacturing Base and Competitors
Table 87. SI Group Major Business
Table 88. SI Group CNSL Modified Phenolic Resin Product and Services
Table 89. SI Group CNSL Modified Phenolic Resin Production (Tons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 90. SI Group Recent Developments/Updates
Table 91. SI Group Competitive Strengths & Weaknesses
Table 92. Jinan Shengquan Group Basic Information, Manufacturing Base and Competitors
Table 93. Jinan Shengquan Group Major Business
Table 94. Jinan Shengquan Group CNSL Modified Phenolic Resin Product and Services
Table 95. Jinan Shengquan Group CNSL Modified Phenolic Resin Production (Tons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 96. Jinan Shengquan Group Recent Developments/Updates
Table 97. Jinan Shengquan Group Competitive Strengths & Weaknesses
Table 98. Sino Legend (China) Chemical Basic Information, Manufacturing Base and Competitors
Table 99. Sino Legend (China) Chemical Major Business
Table 100. Sino Legend (China) Chemical CNSL Modified Phenolic Resin Product and Services
Table 101. Sino Legend (China) Chemical CNSL Modified Phenolic Resin Production (Tons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 102. Sino Legend (China) Chemical Recent Developments/Updates
Table 103. Sino Legend (China) Chemical Competitive Strengths & Weaknesses
Table 104. Willing New Materials Technology Basic Information, Manufacturing Base and Competitors
Table 105. Willing New Materials Technology Major Business
Table 106. Willing New Materials Technology CNSL Modified Phenolic Resin Product and Services
Table 107. Willing New Materials Technology CNSL Modified Phenolic Resin Production (Tons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 108. Willing New Materials Technology Recent Developments/Updates
Table 109. Willing New Materials Technology Competitive Strengths & Weaknesses
Table 110. Hangmo New Materials Group Basic Information, Manufacturing Base and Competitors

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Table 111. Hangmo New Materials Group Major Business
Table 112. Hangmo New Materials Group CNSL Modified Phenolic Resin Product and Services
Table 113. Hangmo New Materials Group CNSL Modified Phenolic Resin Production (Tons), Price (US$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 114. Hangmo New Materials Group Recent Developments/Updates
Table 115. Hangmo New Materials Group Competitive Strengths & Weaknesses
Table 116. Global Key Players of CNSL Modified Phenolic Resin Upstream (Raw Materials)
Table 117. Global CNSL Modified Phenolic Resin Typical Customers
Table 118. CNSL Modified Phenolic Resin Typical Distributors

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List Of Figures

LIST OF FIGURES

Figure 1. CNSL Modified Phenolic Resin Picture
Figure 2. World CNSL Modified Phenolic Resin Production Value: 2021 & 2025 & 2032, (USD Million)
Figure 3. World CNSL Modified Phenolic Resin Production Value and Forecast (2021-2032) & (USD Million)
Figure 4. World CNSL Modified Phenolic Resin Production (2021-2032) & (Tons)
Figure 5. World CNSL Modified Phenolic Resin Average Price (2021-2032) & (US$/Ton)
Figure 6. World CNSL Modified Phenolic Resin Production Value Market Share by Region (2021-2032)
Figure 7. World CNSL Modified Phenolic Resin Production Market Share by Region (2021-2032)
Figure 8. North America CNSL Modified Phenolic Resin Production (2021-2032) & (Tons)
Figure 9. Japan CNSL Modified Phenolic Resin Production (2021-2032) & (Tons)
Figure 10. China CNSL Modified Phenolic Resin Production (2021-2032) & (Tons)
Figure 11. CNSL Modified Phenolic Resin Market Drivers
Figure 12. Factors Affecting Demand
Figure 13. World CNSL Modified Phenolic Resin Consumption (2021-2032) & (Tons)
Figure 14. World CNSL Modified Phenolic Resin Consumption Market Share by Region (2021-2032)
Figure 15. United States CNSL Modified Phenolic Resin Consumption (2021-2032) & (Tons)
Figure 16. China CNSL Modified Phenolic Resin Consumption (2021-2032) & (Tons)
Figure 17. Europe CNSL Modified Phenolic Resin Consumption (2021-2032) & (Tons)
Figure 18. Japan CNSL Modified Phenolic Resin Consumption (2021-2032) & (Tons)
Figure 19. South Korea CNSL Modified Phenolic Resin Consumption (2021-2032) & (Tons)
Figure 20. ASEAN CNSL Modified Phenolic Resin Consumption (2021-2032) & (Tons)
Figure 21. India CNSL Modified Phenolic Resin Consumption (2021-2032) & (Tons)
Figure 22. Producer Shipments of CNSL Modified Phenolic Resin by Manufacturer Revenue ($MM) and Market Share (%): 2025
Figure 23. Global Four-firm Concentration Ratios (CR4) for CNSL Modified Phenolic Resin Markets in 2025
Figure 24. Global Four-firm Concentration Ratios (CR8) for CNSL Modified Phenolic Resin Markets in 2025

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Figure 25. United States VS China: CNSL Modified Phenolic Resin Production Value Market Share Comparison (2021 & 2025 & 2032)
Figure 26. United States VS China: CNSL Modified Phenolic Resin Production Market Share Comparison (2021 & 2025 & 2032)
Figure 27. United States VS China: CNSL Modified Phenolic Resin Consumption Market Share Comparison (2021 & 2025 & 2032)
Figure 28. United States Based Manufacturers CNSL Modified Phenolic Resin Production Market Share 2025
Figure 29. China Based Manufacturers CNSL Modified Phenolic Resin Production Market Share 2025
Figure 30. Rest of World Based Manufacturers CNSL Modified Phenolic Resin Production Market Share 2025
Figure 31. World CNSL Modified Phenolic Resin Production Value by Type, (USD Million), 2021 & 2025 & 2032
Figure 32. World CNSL Modified Phenolic Resin Production Value Market Share by Type in 2025
Figure 33. Thermosetting Phenolic Resin
Figure 34. Thermoplastic Phenolic Resin
Figure 35. World CNSL Modified Phenolic Resin Production Market Share by Type (2021-2032)
Figure 36. World CNSL Modified Phenolic Resin Production Value Market Share by Type (2021-2032)
Figure 37. World CNSL Modified Phenolic Resin Average Price by Type (2021-2032) & (US$/Ton)
Figure 38. World CNSL Modified Phenolic Resin Production Value by Softening Point, (USD Million), 2021 & 2025 & 2032
Figure 39. World CNSL Modified Phenolic Resin Production Value Market Share by Softening Point in 2025
Figure 40. Low Softening Point (?90°C)
Figure 41. High Softening Point (>90°C)
Figure 42. World CNSL Modified Phenolic Resin Production Market Share by Softening Point (2021-2032)
Figure 43. World CNSL Modified Phenolic Resin Production Value Market Share by Softening Point (2021-2032)
Figure 44. World CNSL Modified Phenolic Resin Average Price by Softening Point (2021-2032) & (US$/Ton)
Figure 45. World CNSL Modified Phenolic Resin Production Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 46. World CNSL Modified Phenolic Resin Production Value Market Share by

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Application in 2025
Figure 47. Friction Material
Figure 48. Rubber Product
Figure 49. Coating and Adhesive
Figure 50. Other
Figure 51. World CNSL Modified Phenolic Resin Production Market Share by Application (2021-2032)
Figure 52. World CNSL Modified Phenolic Resin Production Value Market Share by Application (2021-2032)
Figure 53. World CNSL Modified Phenolic Resin Average Price by Application (2021-2032) & (US$/Ton)
Figure 54. CNSL Modified Phenolic Resin Industry Chain
Figure 55. CNSL Modified Phenolic Resin Procurement Model
Figure 56. CNSL Modified Phenolic Resin Sales Model
Figure 57. CNSL Modified Phenolic Resin Sales Channels, Direct Sales, and Distribution
Figure 58. Methodology
Figure 59. Research Process and Data Source

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