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Global CNSL Modified Phenolic Resin Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global CNSL Modified Phenolic Resin market size was valued at US$ 126 million in 2025 and is forecast to a readjusted size of US$ 167 million by 2032 with a CAGR of 4.2% during review period.

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

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Asia is an important production and consumption region for the product

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,

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making it difficult for new grades to replace established products rapidly.

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

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powders, fillers, and friction modifiers, whereas rubber customers focus on mixing 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

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Phenolic Resin, with Japan and China forming the principal manufacturing cluster. 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 is a detailed and comprehensive analysis for global CNSL Modified Phenolic Resin market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as

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well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global CNSL Modified Phenolic Resin market size and forecasts, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global CNSL Modified Phenolic Resin market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global CNSL Modified Phenolic Resin market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global CNSL Modified Phenolic Resin market shares of main players, shipments in revenue ($ Million), sales quantity (Tons), and ASP (US$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for CNSL Modified Phenolic Resin

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global CNSL Modified Phenolic Resin market based on the following parameters - company overview, sales quantity, revenue, 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.

CNSL Modified Phenolic Resin market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market Segmentation

Market segment by Type

Thermosetting Phenolic Resin

Thermoplastic Phenolic Resin

Market segment by Softening Point

Low Softening Point (?90°C)

High Softening Point (>90°C)

Market segment by Application

Friction Material

Rubber Product

Coating and Adhesive

Other

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Major players covered

Cardolite Corporation

Sumitomo Bakelite

Cashew

SI Group

Jinan Shengquan Group

Sino Legend (China) Chemical

Willing New Materials Technology

Hangmo New Materials Group

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe CNSL Modified Phenolic Resin product scope, market overview, market estimation caveats and base year.
Chapter 2, to profile the top manufacturers of CNSL Modified Phenolic Resin, with price,

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sales quantity, revenue, and global market share of CNSL Modified Phenolic Resin from 2021 to 2026.
Chapter 3, the CNSL Modified Phenolic Resin competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.
Chapter 4, the CNSL Modified Phenolic Resin breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.
Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.
Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and CNSL Modified Phenolic Resin market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.
Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.
Chapter 13, the key raw materials and key suppliers, and industry chain of CNSL Modified Phenolic Resin.
Chapter 14 and 15, to describe CNSL Modified Phenolic Resin sales channel, distributors, customers, research findings and conclusion.

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