

Global Rosin Core Solder Wire 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 Rosin Core Solder Wire market size was valued at US\$ 1251 million in 2025 and is forecast to a readjusted size of US\$ 1638 million by 2032 with a CAGR of 3.9% during review period.

Rosin-core solder wire is a type of solder in which rosin-based flux is filled inside a tin alloy wire. The flux is evenly coated around the center of the wire through an extrusion process. During soldering, the rosin is activated by heat, removing oxides from the metal surface and improving wettability and solder quality. It features bright solder joints, no corrosion, and high insulation resistance, and is widely used in electronic assembly and manual soldering.

Upstream industries mainly include suppliers of metal raw materials such as tin, lead, silver, and copper, as well as manufacturers of flux raw materials such as rosin and activators. Downstream industries cover consumer electronics, communication equipment, automotive electronics, instrumentation, and home appliance manufacturing, serving PCB assembly, component soldering, and repair/rework processes. Sales are achieved through electronic component distributors and industrial e-commerce channels. The global price of rosin-core solder wire is \$12,016 per ton, with annual sales of approximately 101,200 tons, a global production capacity of 120,000 tons, and an industry profit margin of 20%.

The global rosin-core solder wire market is undergoing a profound transformation driven by both environmental upgrades and technological iterations. Driven by environmental regulations, the lead-free trend continues to advance, with rosin-core solder wire alloy systems rapidly transitioning from traditional tin-lead to lead-free alloys such as tin-silver-

copper and tin-copper to meet RoHS and other directive requirements. Flux formulations are continuously optimized, maintaining excellent soldering activity while improving post-soldering reliability. Precise control of rosin content ensures bright solder joints without residual corrosion. In terms of product form, there is a shift towards ultra-fine diameters ($\leq 0.3\text{mm}$) and high purity to meet the precision soldering needs of miniaturized electronic components. Application areas are expanding from general electronic assembly to high-reliability scenarios such as automotive electronics and medical devices, placing higher demands on flux activity, insulation resistance, and solder joint strength. The Asia-Pacific region, leveraging its electronics manufacturing cluster advantages, has become the world's largest production and consumption area. Although lead-free is the mainstream trend, tin-lead rosin-core solder wire maintains stable demand in the military, aerospace, and some industrial electronics sectors due to its excellent wettability and reliability. In the future, with the trend of miniaturization and high-density integration of electronic products, the requirements for the welding precision and reliability of rosin-core solder wire will continue to increase.

This report is a detailed and comprehensive analysis for global Rosin Core Solder Wire 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 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 Rosin Core Solder Wire market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Rosin Core Solder Wire market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Rosin Core Solder Wire 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 Rosin Core Solder Wire 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 Rosin Core Solder Wire

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 Rosin Core Solder Wire 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 SMIC, Harima, almit, AIM Solder, Oatey, Wartonsolder, Red Hill General, Mayer Alloys, Greener, Vital Material, etc.

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

Market Segmentation

Rosin Core Solder Wire 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 segment by Type

Lead

Lead-free

Market segment by Alloy Composition

Tin-Lead Alloy

Lead-Free Alloy

Special Alloy

Market segment by Rosin Properties

Common Rosin Core

Activated Rosin Core

Synthetic Rosin Core

Market segment by Application

Consumer Electronics

Industrial Equipment

Automotive Electronics

Aerospace Electronics

Military Electronics

Medical Electronics

Other

Major players covered

SMIC

Harima

almit

AIM Solder

Oatey

Wartonsolder

Red Hill General

Mayer Alloys

Greener

Vital Material

Tongfang Electronic

Youbang

Arakawa Chemical Industries

Uniforce Metal Industry

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)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Rosin Core Solder Wire product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Rosin Core Solder Wire, with price, sales quantity, revenue, and global market share of Rosin Core Solder Wire from 2021 to 2026.

Chapter 3, the Rosin Core Solder Wire competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Rosin Core Solder Wire 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 Rosin Core Solder Wire 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 Rosin Core Solder Wire.

Chapter 14 and 15, to describe Rosin Core Solder Wire sales channel, distributors, customers, research findings and conclusion.

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