

Global Room Temperature Blackening Agent Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Room Temperature Blackening Agent market size is expected to reach \$ 421 million by 2032, rising at a market growth of 4.3% CAGR during the forecast period (2026-2032).

In 2025, the global production of room-temperature blackening agents was approximately 87,000 tons, with an average selling price of around US\$3,500 per ton. Single-line production capacity is approximately 2,000-4,000 tons per year, with an average gross profit margin of about 10-20%. Room-temperature blackening agents are chemical reagents used for surface treatment of steel materials. They can form a black oxide film on the metal surface at room temperature, providing corrosion protection and decorative effects. This treatment method offers advantages over traditional high-temperature blackening, including being pollution-free, energy-efficient, and easy to operate.

The upstream core raw materials for room-temperature blackening agents mainly include film-forming main salts (such as selenite, copper sulfate, and molybdate), pH regulators (such as phosphoric acid and organic acids), complexing agents (such as citrate and EDTA), and accelerators and stabilizers; its downstream applications are directly in end-processing industries that require decorative, anti-rust, and anti-reflective properties on the surface of steel workpieces. These industries mainly include standard parts and fasteners, mechanical parts, hardware tools, automotive parts, and military and instrumentation fields, achieving aesthetic and anti-rust functions by forming a black conversion film.

The market for room-temperature blackening agents has maintained steady growth in recent years, driven by the continuous development of the manufacturing industry and the increasing demand for metal surface treatment. Room-temperature blackening agents are primarily used for rust prevention and decorative treatment of metal surfaces and are widely applied in industries such as automotive, construction, electronics, and

aerospace, especially in applications requiring high standards of corrosion resistance and aesthetics for metals like steel, copper, and aluminum alloys. With increasingly stringent environmental regulations, environmentally friendly, low-toxicity, and low-pollution room-temperature blackening agents are gradually becoming the market mainstream, driving innovation in related technologies and products. Market growth is mainly driven by the automotive and construction industries, particularly the high standards required for metal surface treatment in automotive parts, mechanical equipment, and precision electronic products. Furthermore, with increased consumer attention to product appearance, the demand for decorative room-temperature blackening agents is also steadily rising. In the future, with technological advancements and stricter environmental requirements, the market will become further segmented, and the trend towards multi-functional and personalized products will become more pronounced.

This report studies the global Room Temperature Blackening Agent production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Room Temperature Blackening Agent and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Room Temperature Blackening Agent that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Room Temperature Blackening Agent total production and demand, 2021-2032, (Tons)

Global Room Temperature Blackening Agent total production value, 2021-2032, (USD Million)

Global Room Temperature Blackening Agent production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Room Temperature Blackening Agent consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Room Temperature Blackening Agent domestic production, consumption, key domestic manufacturers and share

Global Room Temperature Blackening Agent production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Room Temperature Blackening Agent production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Room Temperature Blackening Agent production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Room Temperature Blackening Agent

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 Birchwood, ECOSOND, JAX Chemical, Henkel, Guangzhou Yishun Chemical, Nantong Rui'ao New Materials Technology, Cangzhou Sanyu Chemical Products, Liuzhou Guodian Chemicals, Shandong Shiqiang New Materials Technology, Shenzhen Shengdeyi Surface Treatment Technology, etc.

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 Room Temperature Blackening Agent 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 Room Temperature Blackening Agent Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Room Temperature Blackening Agent Market, Segmentation by Type:

Liquid

Powder

Global Room Temperature Blackening Agent Market, Segmentation by Suitable Substrates:

Steel

Copper Alloy

Cast Iron

Others

Global Room Temperature Blackening Agent Market, Segmentation by Reaction Mechanism:

Acidic Room Temperature Blackening Agent

Neutral Room Temperature Blackening Agent

Alkaline Room Temperature Blackening Agent

Global Room Temperature Blackening Agent Market, Segmentation by Application:

Machinery Components

Electronics & Precision Instruments

Aerospace

Automotive

Others

Companies Profiled:

Birchwood

ECOSOND

JAX Chemical

Henkel

Guangzhou Yishun Chemical

Nantong Rui'ao New Materials Technology

Cangzhou Sanyu Chemical Products

Liuzhou Guodian Chemicals

Shandong Shiqiang New Materials Technology

Shenzhen Shengdeyi Surface Treatment Technology

Hunan Guterui Novel Material Science and Technology

Key Questions Answered:

1. How big is the global Room Temperature Blackening Agent market?
2. What is the demand of the global Room Temperature Blackening Agent market?
3. What is the year over year growth of the global Room Temperature Blackening Agent market?
4. What is the production and production value of the global Room Temperature Blackening Agent market?
5. Who are the key producers in the global Room Temperature Blackening Agent market?
6. What are the growth factors driving the market demand?

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