

# Global Phenol-free Thermal Paper Developer Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G44EDC821FBFEN.html>

Date: February 2026

Pages: 97

Price: US\$ 4,480.00 (Single User License)

ID: G44EDC821FBFEN

## Abstracts

The global Phenol-free Thermal Paper Developer market size is expected to reach \$ 89.74 million by 2032, rising at a market growth of 4.5% CAGR during the forecast period (2026-2032).

Phenol-free thermal paper developers are chemical agents used to activate leuco dyes in thermal paper while containing no phenolic hydroxyl groups in their molecular structures. They enable image formation through non-phenolic chemistries, reducing potential health and environmental risks associated with bisphenols and other phenolic compounds, and are widely applied in safety-conscious thermal paper products.

In 2025, global production of phenol-free thermal paper developers reached 7,348 tons, with an average selling price of USD 8,718 per ton. Total installed capacity was approximately 10,000 tons, and the industry gross margin was around 10%–20%. The cost structure consisted of about 70% direct materials, 25% manufacturing overhead, and 5% labor costs. In the industry value chain, upstream players include suppliers of chemical raw materials and intermediates, while downstream players consist of thermal paper manufacturers and end users.

This report studies the global Phenol-free Thermal Paper Developer production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Phenol-free Thermal Paper Developer 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 Phenol-free Thermal Paper Developer that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Phenol-free Thermal Paper Developer total production and demand, 2021-2032, (Tons)

Global Phenol-free Thermal Paper Developer total production value, 2021-2032, (USD Million)

Global Phenol-free Thermal Paper Developer production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Phenol-free Thermal Paper Developer consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Phenol-free Thermal Paper Developer domestic production, consumption, key domestic manufacturers and share

Global Phenol-free Thermal Paper Developer production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Phenol-free Thermal Paper Developer production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Phenol-free Thermal Paper Developer production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Phenol-free Thermal Paper Developer 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 Solenis, Mitsubishi Chemical, Neostar United (Changzhou) Industrial, Shenyang Photosensitive Chemical, Weifang Dayoo Biochemical, Shouguang Nuomeng Chemical, 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 Phenol-free Thermal Paper Developer 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 Phenol-free Thermal Paper Developer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Phenol-free Thermal Paper Developer Market, Segmentation by Type:

Pergafast Developers

Sulfonamide

Urethane (UU) Developers

Others

#### Global Phenol-free Thermal Paper Developer Market, Segmentation by Use:

Coated Thermal Paper

Uncoated Thermal Paper

## Global Phenol-free Thermal Paper Developer Market, Segmentation by Application:

POS Paper

Label Paper

Fax Paper

Others

## Companies Profiled:

Solenis

Mitsubishi Chemical

Neostar United (Changzhou) Industrial

Shenyang Photosensitive Chemical

Weifang Dayoo Biochemical

Shouguang Nuomeng Chemical

## Key Questions Answered:

1. How big is the global Phenol-free Thermal Paper Developer market?
2. What is the demand of the global Phenol-free Thermal Paper Developer market?
3. What is the year over year growth of the global Phenol-free Thermal Paper Developer market?
4. What is the production and production value of the global Phenol-free Thermal Paper Developer market?
5. Who are the key producers in the global Phenol-free Thermal Paper Developer market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Compact CO2 Sensor Module Introduction
- 1.2 World Compact CO2 Sensor Module Supply & Forecast
  - 1.2.1 World Compact CO2 Sensor Module Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Compact CO2 Sensor Module Production (2021-2032)
  - 1.2.3 World Compact CO2 Sensor Module Pricing Trends (2021-2032)
- 1.3 World Compact CO2 Sensor Module Production by Region (Based on Production Site)
  - 1.3.1 World Compact CO2 Sensor Module Production Value by Region (2021-2032)
  - 1.3.2 World Compact CO2 Sensor Module Production by Region (2021-2032)
  - 1.3.3 World Compact CO2 Sensor Module Average Price by Region (2021-2032)
  - 1.3.4 North America Compact CO2 Sensor Module Production (2021-2032)
  - 1.3.5 Europe Compact CO2 Sensor Module Production (2021-2032)
  - 1.3.6 China Compact CO2 Sensor Module Production (2021-2032)
  - 1.3.7 Japan Compact CO2 Sensor Module Production (2021-2032)
  - 1.3.8 South Korea Compact CO2 Sensor Module Production (2021-2032)
  - 1.3.9 Southeast Asia Compact CO2 Sensor Module Production (2021-2032)
  - 1.3.10 China Taiwan Compact CO2 Sensor Module Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Compact CO2 Sensor Module Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Compact CO2 Sensor Module Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Compact CO2 Sensor Module Demand (2021-2032)
- 2.2 World Compact CO2 Sensor Module Consumption by Region
  - 2.2.1 World Compact CO2 Sensor Module Consumption by Region (2021-2026)
  - 2.2.2 World Compact CO2 Sensor Module Consumption Forecast by Region (2027-2032)
- 2.3 United States Compact CO2 Sensor Module Consumption (2021-2032)
- 2.4 China Compact CO2 Sensor Module Consumption (2021-2032)
- 2.5 Europe Compact CO2 Sensor Module Consumption (2021-2032)
- 2.6 Japan Compact CO2 Sensor Module Consumption (2021-2032)
- 2.7 South Korea Compact CO2 Sensor Module Consumption (2021-2032)
- 2.8 ASEAN Compact CO2 Sensor Module Consumption (2021-2032)

## 2.9 India Compact CO2 Sensor Module Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

#### 3.1 World Compact CO2 Sensor Module Production Value by Manufacturer (2021-2026)

#### 3.2 World Compact CO2 Sensor Module Production by Manufacturer (2021-2026)

#### 3.3 World Compact CO2 Sensor Module Average Price by Manufacturer (2021-2026)

#### 3.4 Compact CO2 Sensor Module Company Evaluation Quadrant

#### 3.5 Industry Rank and Concentration Rate (CR)

##### 3.5.1 Global Compact CO2 Sensor Module Industry Rank of Major Manufacturers

##### 3.5.2 Global Concentration Ratios (CR4) for Compact CO2 Sensor Module in 2025

##### 3.5.3 Global Concentration Ratios (CR8) for Compact CO2 Sensor Module in 2025

#### 3.6 Compact CO2 Sensor Module Market: Overall Company Footprint Analysis

##### 3.6.1 Compact CO2 Sensor Module Market: Region Footprint

##### 3.6.2 Compact CO2 Sensor Module Market: Company Product Type Footprint

##### 3.6.3 Compact CO2 Sensor Module 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: Compact CO2 Sensor Module Production Value Comparison

##### 4.1.1 United States VS China: Compact CO2 Sensor Module Production Value Comparison (2021 & 2025 & 2032)

##### 4.1.2 United States VS China: Compact CO2 Sensor Module Production Value Market Share Comparison (2021 & 2025 & 2032)

#### 4.2 United States VS China: Compact CO2 Sensor Module Production Comparison

##### 4.2.1 United States VS China: Compact CO2 Sensor Module Production Comparison (2021 & 2025 & 2032)

##### 4.2.2 United States VS China: Compact CO2 Sensor Module Production Market Share Comparison (2021 & 2025 & 2032)

#### 4.3 United States VS China: Compact CO2 Sensor Module Consumption Comparison

##### 4.3.1 United States VS China: Compact CO2 Sensor Module Consumption

Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Compact CO2 Sensor Module Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Compact CO2 Sensor Module Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Compact CO2 Sensor Module Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Compact CO2 Sensor Module Production Value (2021-2026)

4.4.3 United States Based Manufacturers Compact CO2 Sensor Module Production (2021-2026)

4.5 China Based Compact CO2 Sensor Module Manufacturers and Market Share

4.5.1 China Based Compact CO2 Sensor Module Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Compact CO2 Sensor Module Production Value (2021-2026)

4.5.3 China Based Manufacturers Compact CO2 Sensor Module Production (2021-2026)

4.6 Rest of World Based Compact CO2 Sensor Module Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Compact CO2 Sensor Module Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Compact CO2 Sensor Module Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Compact CO2 Sensor Module Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Compact CO2 Sensor Module Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 NDIR CO2 Sensor

5.2.2 Chemical CO2 Sensor

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Compact CO2 Sensor Module Production by Type (2021-2032)

5.3.2 World Compact CO2 Sensor Module Production Value by Type (2021-2032)

5.3.3 World Compact CO2 Sensor Module Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY ENVIRONMENT**

6.1 World Compact CO2 Sensor Module Market Size Overview by Environment: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Environment

6.2.1 Indoor

6.2.2 Outdoor

6.3 Market Segment by Environment

6.3.1 World Compact CO2 Sensor Module Production by Environment (2021-2032)

6.3.2 World Compact CO2 Sensor Module Production Value by Environment (2021-2032)

6.3.3 World Compact CO2 Sensor Module Average Price by Environment (2021-2032)

## **7 MARKET ANALYSIS BY APPLICATION**

7.1 World Compact CO2 Sensor Module Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Automotive

7.2.2 Industrial

7.2.3 Building Automation

7.2.4 Others

7.3 Market Segment by Application

7.3.1 World Compact CO2 Sensor Module Production by Application (2021-2032)

7.3.2 World Compact CO2 Sensor Module Production Value by Application (2021-2032)

7.3.3 World Compact CO2 Sensor Module Average Price by Application (2021-2032)

## **8 COMPANY PROFILES**

8.1 Figaro

8.1.1 Figaro Details

8.1.2 Figaro Major Business

8.1.3 Figaro Compact CO2 Sensor Module Product and Services

8.1.4 Figaro Compact CO2 Sensor Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 Figaro Recent Developments/Updates

8.1.6 Figaro Competitive Strengths & Weaknesses

## 8.2 Amphenol

### 8.2.1 Amphenol Details

### 8.2.2 Amphenol Major Business

### 8.2.3 Amphenol Compact CO2 Sensor Module Product and Services

### 8.2.4 Amphenol Compact CO2 Sensor Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 8.2.5 Amphenol Recent Developments/Updates

### 8.2.6 Amphenol Competitive Strengths & Weaknesses

## 8.3 Vaisala

### 8.3.1 Vaisala Details

### 8.3.2 Vaisala Major Business

### 8.3.3 Vaisala Compact CO2 Sensor Module Product and Services

### 8.3.4 Vaisala Compact CO2 Sensor Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 8.3.5 Vaisala Recent Developments/Updates

### 8.3.6 Vaisala Competitive Strengths & Weaknesses

## 8.4 Senseair

### 8.4.1 Senseair Details

### 8.4.2 Senseair Major Business

### 8.4.3 Senseair Compact CO2 Sensor Module Product and Services

### 8.4.4 Senseair Compact CO2 Sensor Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 8.4.5 Senseair Recent Developments/Updates

### 8.4.6 Senseair Competitive Strengths & Weaknesses

## 8.5 Tongdy

### 8.5.1 Tongdy Details

### 8.5.2 Tongdy Major Business

### 8.5.3 Tongdy Compact CO2 Sensor Module Product and Services

### 8.5.4 Tongdy Compact CO2 Sensor Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 8.5.5 Tongdy Recent Developments/Updates

### 8.5.6 Tongdy Competitive Strengths & Weaknesses

## 8.6 sensirion

### 8.6.1 sensirion Details

### 8.6.2 sensirion Major Business

### 8.6.3 sensirion Compact CO2 Sensor Module Product and Services

### 8.6.4 sensirion Compact CO2 Sensor Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 8.6.5 sensirion Recent Developments/Updates

- 8.6.6 sensirion Competitive Strengths & Weaknesses
- 8.7 E+E Elektronik
  - 8.7.1 E+E Elektronik Details
  - 8.7.2 E+E Elektronik Major Business
  - 8.7.3 E+E Elektronik Compact CO2 Sensor Module Product and Services
  - 8.7.4 E+E Elektronik Compact CO2 Sensor Module Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.7.5 E+E Elektronik Recent Developments/Updates
  - 8.7.6 E+E Elektronik Competitive Strengths & Weaknesses
- 8.8 Gas Sensing Solutions
  - 8.8.1 Gas Sensing Solutions Details
  - 8.8.2 Gas Sensing Solutions Major Business
  - 8.8.3 Gas Sensing Solutions Compact CO2 Sensor Module Product and Services
  - 8.8.4 Gas Sensing Solutions Compact CO2 Sensor Module Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.8.5 Gas Sensing Solutions Recent Developments/Updates
  - 8.8.6 Gas Sensing Solutions Competitive Strengths & Weaknesses
- 8.9 Airwave Electronics
  - 8.9.1 Airwave Electronics Details
  - 8.9.2 Airwave Electronics Major Business
  - 8.9.3 Airwave Electronics Compact CO2 Sensor Module Product and Services
  - 8.9.4 Airwave Electronics Compact CO2 Sensor Module Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.9.5 Airwave Electronics Recent Developments/Updates
  - 8.9.6 Airwave Electronics Competitive Strengths & Weaknesses
- 8.10 Dynament
  - 8.10.1 Dynament Details
  - 8.10.2 Dynament Major Business
  - 8.10.3 Dynament Compact CO2 Sensor Module Product and Services
  - 8.10.4 Dynament Compact CO2 Sensor Module Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.10.5 Dynament Recent Developments/Updates
  - 8.10.6 Dynament Competitive Strengths & Weaknesses
- 8.11 ELT SENSOR
  - 8.11.1 ELT SENSOR Details
  - 8.11.2 ELT SENSOR Major Business
  - 8.11.3 ELT SENSOR Compact CO2 Sensor Module Product and Services
  - 8.11.4 ELT SENSOR Compact CO2 Sensor Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.11.5 ELT SENSOR Recent Developments/Updates

8.11.6 ELT SENSOR Competitive Strengths & Weaknesses

8.12 Winsen

8.12.1 Winsen Details

8.12.2 Winsen Major Business

8.12.3 Winsen Compact CO2 Sensor Module Product and Services

8.12.4 Winsen Compact CO2 Sensor Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.12.5 Winsen Recent Developments/Updates

8.12.6 Winsen Competitive Strengths & Weaknesses

8.13 SST Sensing

8.13.1 SST Sensing Details

8.13.2 SST Sensing Major Business

8.13.3 SST Sensing Compact CO2 Sensor Module Product and Services

8.13.4 SST Sensing Compact CO2 Sensor Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.13.5 SST Sensing Recent Developments/Updates

8.13.6 SST Sensing Competitive Strengths & Weaknesses

## **9 INDUSTRY CHAIN ANALYSIS**

9.1 Compact CO2 Sensor Module Industry Chain

9.2 Compact CO2 Sensor Module Upstream Analysis

9.2.1 Compact CO2 Sensor Module Core Raw Materials

9.2.2 Main Manufacturers of Compact CO2 Sensor Module Core Raw Materials

9.3 Midstream Analysis

9.4 Downstream Analysis

9.5 Compact CO2 Sensor Module Production Mode

9.6 Compact CO2 Sensor Module Procurement Model

9.7 Compact CO2 Sensor Module Industry Sales Model and Sales Channels

9.7.1 Compact CO2 Sensor Module Sales Model

9.7.2 Compact CO2 Sensor Module Typical Distributors

## **10 RESEARCH FINDINGS AND CONCLUSION**

## **11 APPENDIX**

11.1 Methodology

11.2 Research Process and Data Source

## 11.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Phenol-free Thermal Paper Developer Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Phenol-free Thermal Paper Developer Production Value by Region (2021-2026) & (USD Million)

Table 3. World Phenol-free Thermal Paper Developer Production Value by Region (2027-2032) & (USD Million)

Table 4. World Phenol-free Thermal Paper Developer Production Value Market Share by Region (2021-2026)

Table 5. World Phenol-free Thermal Paper Developer Production Value Market Share by Region (2027-2032)

Table 6. World Phenol-free Thermal Paper Developer Production by Region (2021-2026) & (Tons)

Table 7. World Phenol-free Thermal Paper Developer Production by Region (2027-2032) & (Tons)

Table 8. World Phenol-free Thermal Paper Developer Production Market Share by Region (2021-2026)

Table 9. World Phenol-free Thermal Paper Developer Production Market Share by Region (2027-2032)

Table 10. World Phenol-free Thermal Paper Developer Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Phenol-free Thermal Paper Developer Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Phenol-free Thermal Paper Developer Major Market Trends

Table 13. World Phenol-free Thermal Paper Developer Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Phenol-free Thermal Paper Developer Consumption by Region (2021-2026) & (Tons)

Table 15. World Phenol-free Thermal Paper Developer Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Phenol-free Thermal Paper Developer Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Phenol-free Thermal Paper Developer Producers in 2025

Table 18. World Phenol-free Thermal Paper Developer Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Phenol-free Thermal Paper Developer Producers in 2025

Table 20. World Phenol-free Thermal Paper Developer Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Phenol-free Thermal Paper Developer Company Evaluation Quadrant

Table 22. World Phenol-free Thermal Paper Developer Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Phenol-free Thermal Paper Developer Production Site of Key Manufacturer

Table 24. Phenol-free Thermal Paper Developer Market: Company Product Type Footprint

Table 25. Phenol-free Thermal Paper Developer Market: Company Product Application Footprint

Table 26. Phenol-free Thermal Paper Developer Competitive Factors

Table 27. Phenol-free Thermal Paper Developer New Entrant and Capacity Expansion Plans

Table 28. Phenol-free Thermal Paper Developer Mergers & Acquisitions Activity

Table 29. United States VS China Phenol-free Thermal Paper Developer Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Phenol-free Thermal Paper Developer Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Phenol-free Thermal Paper Developer Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Phenol-free Thermal Paper Developer Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Phenol-free Thermal Paper Developer Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Phenol-free Thermal Paper Developer Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Phenol-free Thermal Paper Developer Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers Phenol-free Thermal Paper Developer Production Market Share (2021-2026)

Table 37. China Based Phenol-free Thermal Paper Developer Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Phenol-free Thermal Paper Developer Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Phenol-free Thermal Paper Developer Production Value Market Share (2021-2026)

- Table 40. China Based Manufacturers Phenol-free Thermal Paper Developer Production, (2021-2026) & (Tons)
- Table 41. China Based Manufacturers Phenol-free Thermal Paper Developer Production Market Share (2021-2026)
- Table 42. Rest of World Based Phenol-free Thermal Paper Developer Manufacturers, Headquarters and Production Site (State, Country)
- Table 43. Rest of World Based Manufacturers Phenol-free Thermal Paper Developer Production Value, (2021-2026) & (USD Million)
- Table 44. Rest of World Based Manufacturers Phenol-free Thermal Paper Developer Production Value Market Share (2021-2026)
- Table 45. Rest of World Based Manufacturers Phenol-free Thermal Paper Developer Production, (2021-2026) & (Tons)
- Table 46. Rest of World Based Manufacturers Phenol-free Thermal Paper Developer Production Market Share (2021-2026)
- Table 47. World Phenol-free Thermal Paper Developer Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 48. World Phenol-free Thermal Paper Developer Production by Type (2021-2026) & (Tons)
- Table 49. World Phenol-free Thermal Paper Developer Production by Type (2027-2032) & (Tons)
- Table 50. World Phenol-free Thermal Paper Developer Production Value by Type (2021-2026) & (USD Million)
- Table 51. World Phenol-free Thermal Paper Developer Production Value by Type (2027-2032) & (USD Million)
- Table 52. World Phenol-free Thermal Paper Developer Average Price by Type (2021-2026) & (US\$/Ton)
- Table 53. World Phenol-free Thermal Paper Developer Average Price by Type (2027-2032) & (US\$/Ton)
- Table 54. World Phenol-free Thermal Paper Developer Production Value by Use, (USD Million), 2021 & 2025 & 2032
- Table 55. World Phenol-free Thermal Paper Developer Production by Use (2021-2026) & (Tons)
- Table 56. World Phenol-free Thermal Paper Developer Production by Use (2027-2032) & (Tons)
- Table 57. World Phenol-free Thermal Paper Developer Production Value by Use (2021-2026) & (USD Million)
- Table 58. World Phenol-free Thermal Paper Developer Production Value by Use (2027-2032) & (USD Million)
- Table 59. World Phenol-free Thermal Paper Developer Average Price by Use

(2021-2026) & (US\$/Ton)

Table 60. World Phenol-free Thermal Paper Developer Average Price by Use

(2027-2032) & (US\$/Ton)

Table 61. World Phenol-free Thermal Paper Developer Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Phenol-free Thermal Paper Developer Production by Application (2021-2026) & (Tons)

Table 63. World Phenol-free Thermal Paper Developer Production by Application (2027-2032) & (Tons)

Table 64. World Phenol-free Thermal Paper Developer Production Value by Application (2021-2026) & (USD Million)

Table 65. World Phenol-free Thermal Paper Developer Production Value by Application (2027-2032) & (USD Million)

Table 66. World Phenol-free Thermal Paper Developer Average Price by Application (2021-2026) & (US\$/Ton)

Table 67. World Phenol-free Thermal Paper Developer Average Price by Application (2027-2032) & (US\$/Ton)

Table 68. Solenis Basic Information, Manufacturing Base and Competitors

Table 69. Solenis Major Business

Table 70. Solenis Phenol-free Thermal Paper Developer Product and Services

Table 71. Solenis Phenol-free Thermal Paper Developer Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Solenis Recent Developments/Updates

Table 73. Solenis Competitive Strengths & Weaknesses

Table 74. Mitsubishi Chemical Basic Information, Manufacturing Base and Competitors

Table 75. Mitsubishi Chemical Major Business

Table 76. Mitsubishi Chemical Phenol-free Thermal Paper Developer Product and Services

Table 77. Mitsubishi Chemical Phenol-free Thermal Paper Developer Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Mitsubishi Chemical Recent Developments/Updates

Table 79. Mitsubishi Chemical Competitive Strengths & Weaknesses

Table 80. Neostar United (Changzhou) Industrial Basic Information, Manufacturing Base and Competitors

Table 81. Neostar United (Changzhou) Industrial Major Business

Table 82. Neostar United (Changzhou) Industrial Phenol-free Thermal Paper Developer Product and Services

Table 83. Neostar United (Changzhou) Industrial Phenol-free Thermal Paper Developer Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Neostar United (Changzhou) Industrial Recent Developments/Updates

Table 85. Neostar United (Changzhou) Industrial Competitive Strengths & Weaknesses

Table 86. Shenyang Photosensitive Chemical Basic Information, Manufacturing Base and Competitors

Table 87. Shenyang Photosensitive Chemical Major Business

Table 88. Shenyang Photosensitive Chemical Phenol-free Thermal Paper Developer Product and Services

Table 89. Shenyang Photosensitive Chemical Phenol-free Thermal Paper Developer Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. Shenyang Photosensitive Chemical Recent Developments/Updates

Table 91. Shenyang Photosensitive Chemical Competitive Strengths & Weaknesses

Table 92. Weifang Dayoo Biochemical Basic Information, Manufacturing Base and Competitors

Table 93. Weifang Dayoo Biochemical Major Business

Table 94. Weifang Dayoo Biochemical Phenol-free Thermal Paper Developer Product and Services

Table 95. Weifang Dayoo Biochemical Phenol-free Thermal Paper Developer Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 96. Weifang Dayoo Biochemical Recent Developments/Updates

Table 97. Weifang Dayoo Biochemical Competitive Strengths & Weaknesses

Table 98. Shouguang Nuomeng Chemical Basic Information, Manufacturing Base and Competitors

Table 99. Shouguang Nuomeng Chemical Major Business

Table 100. Shouguang Nuomeng Chemical Phenol-free Thermal Paper Developer Product and Services

Table 101. Shouguang Nuomeng Chemical Phenol-free Thermal Paper Developer Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 102. Shouguang Nuomeng Chemical Recent Developments/Updates

Table 103. Shouguang Nuomeng Chemical Competitive Strengths & Weaknesses

Table 104. Global Key Players of Phenol-free Thermal Paper Developer Upstream (Raw Materials)

Table 105. Global Phenol-free Thermal Paper Developer Typical Customers

Table 106. Phenol-free Thermal Paper Developer Typical Distributors



## List Of Figures

### LIST OF FIGURES

- Figure 1. Phenol-free Thermal Paper Developer Picture
- Figure 2. World Phenol-free Thermal Paper Developer Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Phenol-free Thermal Paper Developer Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Phenol-free Thermal Paper Developer Production (2021-2032) & (Tons)
- Figure 5. World Phenol-free Thermal Paper Developer Average Price (2021-2032) & (US\$/Ton)
- Figure 6. World Phenol-free Thermal Paper Developer Production Value Market Share by Region (2021-2032)
- Figure 7. World Phenol-free Thermal Paper Developer Production Market Share by Region (2021-2032)
- Figure 8. North America Phenol-free Thermal Paper Developer Production (2021-2032) & (Tons)
- Figure 9. Europe Phenol-free Thermal Paper Developer Production (2021-2032) & (Tons)
- Figure 10. China Phenol-free Thermal Paper Developer Production (2021-2032) & (Tons)
- Figure 11. Japan Phenol-free Thermal Paper Developer Production (2021-2032) & (Tons)
- Figure 12. Phenol-free Thermal Paper Developer Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Phenol-free Thermal Paper Developer Consumption (2021-2032) & (Tons)
- Figure 15. World Phenol-free Thermal Paper Developer Consumption Market Share by Region (2021-2032)
- Figure 16. United States Phenol-free Thermal Paper Developer Consumption (2021-2032) & (Tons)
- Figure 17. China Phenol-free Thermal Paper Developer Consumption (2021-2032) & (Tons)
- Figure 18. Europe Phenol-free Thermal Paper Developer Consumption (2021-2032) & (Tons)
- Figure 19. Japan Phenol-free Thermal Paper Developer Consumption (2021-2032) & (Tons)
- Figure 20. South Korea Phenol-free Thermal Paper Developer Consumption

(2021-2032) & (Tons)

Figure 21. ASEAN Phenol-free Thermal Paper Developer Consumption (2021-2032) & (Tons)

Figure 22. India Phenol-free Thermal Paper Developer Consumption (2021-2032) & (Tons)

Figure 23. Producer Shipments of Phenol-free Thermal Paper Developer by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Phenol-free Thermal Paper Developer Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Phenol-free Thermal Paper Developer Markets in 2025

Figure 26. United States VS China: Phenol-free Thermal Paper Developer Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Phenol-free Thermal Paper Developer Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Phenol-free Thermal Paper Developer Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Phenol-free Thermal Paper Developer Production Market Share 2025

Figure 30. China Based Manufacturers Phenol-free Thermal Paper Developer Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Phenol-free Thermal Paper Developer Production Market Share 2025

Figure 32. World Phenol-free Thermal Paper Developer Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Phenol-free Thermal Paper Developer Production Value Market Share by Type in 2025

Figure 34. Pergafast Developers

Figure 35. Sulfonamide

Figure 36. Urethane (UU) Developers

Figure 37. Others

Figure 38. World Phenol-free Thermal Paper Developer Production Market Share by Type (2021-2032)

Figure 39. World Phenol-free Thermal Paper Developer Production Value Market Share by Type (2021-2032)

Figure 40. World Phenol-free Thermal Paper Developer Average Price by Type (2021-2032) & (US\$/Ton)

Figure 41. World Phenol-free Thermal Paper Developer Production Value by Use, (USD Million), 2021 & 2025 & 2032

Figure 42. World Phenol-free Thermal Paper Developer Production Value Market Share by Use in 2025

Figure 43. Coated Thermal Paper

Figure 44. Uncoated Thermal Paper

Figure 45. World Phenol-free Thermal Paper Developer Production Market Share by Use (2021-2032)

Figure 46. World Phenol-free Thermal Paper Developer Production Value Market Share by Use (2021-2032)

Figure 47. World Phenol-free Thermal Paper Developer Average Price by Use (2021-2032) & (US\$/Ton)

Figure 48. World Phenol-free Thermal Paper Developer Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 49. World Phenol-free Thermal Paper Developer Production Value Market Share by Application in 2025

Figure 50. POS Paper

Figure 51. Label Paper

Figure 52. Fax Paper

Figure 53. Others

Figure 54. World Phenol-free Thermal Paper Developer Production Market Share by Application (2021-2032)

Figure 55. World Phenol-free Thermal Paper Developer Production Value Market Share by Application (2021-2032)

Figure 56. World Phenol-free Thermal Paper Developer Average Price by Application (2021-2032) & (US\$/Ton)

Figure 57. Phenol-free Thermal Paper Developer Industry Chain

Figure 58. Phenol-free Thermal Paper Developer Procurement Model

Figure 59. Phenol-free Thermal Paper Developer Sales Model

Figure 60. Phenol-free Thermal Paper Developer Sales Channels, Direct Sales, and Distribution

Figure 61. Methodology

Figure 62. Research Process and Data Source

## I would like to order

Product name: Global Phenol-free Thermal Paper Developer Supply, Demand and Key Producers, 2026-2032

Product link: <https://marketpublishers.com/r/G44EDC821FBFEN.html>

Price: US\$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G44EDC821FBFEN.html>