

Global Oxygen-18 Water 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 Oxygen-18 Water market size was valued at US\$ 148 million in 2025 and is forecast to a readjusted size of US\$ 210 million by 2032 with a CAGR of 5.1% during review period.

Oxygen-18 Water is a stable isotope-labeled water in which the oxygen component is enriched with the stable isotope oxygen-18. It is commonly expressed as $H_2^{18}O$, Water- ^{18}O or O-18 Water. Compared with ordinary water, its basic chemical behavior is similar, but the enriched oxygen isotope gives it high value as a nuclear target material, isotope tracer and analytical reagent. In the radiopharmaceutical industry, high-enrichment Oxygen-18 Water is mainly used as the liquid target material in cyclotrons to generate fluorine-18, which is then used to synthesize fluorine-18 labeled PET radiopharmaceuticals such as ^{18}F -FDG.

The upstream raw materials and inputs of Oxygen-18 Water mainly include natural water or oxygen-containing feedstocks with natural oxygen isotope composition, high-purity water, oxygen or hydrogen related feed gases and utilities, isotope-enriched oxygen intermediates, purification consumables and high-cleanliness packaging materials. For PET and radiopharmaceutical applications, the product usually requires high oxygen-18 enrichment, low organic carbon, low ionic impurity, controlled conductivity and clean vial or bottle packaging. The downstream market is concentrated in PET radiopharmaceutical manufacturers, cyclotron centers, nuclear medicine departments, isotope research laboratories, pharmaceutical research institutions, life science laboratories and environmental isotope analysis institutions.

In 2025, global sales of Oxygen-18 Water reached approximately 2,051 kg, with an

average global market price of around US\$ 70/g. As a niche chemical, its global production capacity is low, and its gross profit margin is approximately 50%-80%.

This report is a detailed and comprehensive analysis for global Oxygen-18 Water 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 Oxygen-18 Water market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/g), 2021-2032

Global Oxygen-18 Water market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/g), 2021-2032

Global Oxygen-18 Water market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/g), 2021-2032

Global Oxygen-18 Water market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/g), 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 Oxygen-18 Water

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 Oxygen-18 Water 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 Nippon Sanso, Rotem Industries, Cambridge Isotope Laboratories, Marshall Isotopes, Center of Molecular Research (CMR), Heavy Water Board, Mesbah Energy, QuTope, Wo Isotope, Jiangsu Huayi Technology, etc.

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

Market Segmentation

Oxygen-18 Water 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

Ultra-high Enrichment Grade (?98%)

High Enrichment Grade (95%-98%)

Low-to-Medium Enrichment Grade (?95%)

Market segment by Grade

PET Target Grade

Analytical Research Grade

Industrial Isotope Grade

Market segment by Isotopic Composition Form

????18?

?????

??

Market segment by Application

PET Radiopharmaceutical Production

Life Science and Metabolic Research

Environmental Hydrological Analysis

Other

Major players covered

Nippon Sanso

Rotem Industries

Cambridge Isotope Laboratories

Marshall Isotopes

Center of Molecular Research (CMR)

Heavy Water Board

Mesbah Energy

QuTope

Wo Isotope

Jiangsu Huayi Technology

Shanghai Research Institute of Chemical 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 Oxygen-18 Water product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Oxygen-18 Water, with price, sales quantity, revenue, and global market share of Oxygen-18 Water from 2021 to 2026.

Chapter 3, the Oxygen-18 Water competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Oxygen-18 Water 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 Oxygen-18 Water 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 Oxygen-18 Water.

Chapter 14 and 15, to describe Oxygen-18 Water sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Oxygen-18 Water Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Ultra-high Enrichment Grade (>98%)

1.3.3 High Enrichment Grade (95%-98%)

1.3.4 Low-to-Medium Enrichment Grade (>95%)

1.4 Market Analysis by Grade

1.4.1 Overview: Global Oxygen-18 Water Consumption Value by Grade: 2021 Versus 2025 Versus 2032

1.4.2 PET Target Grade

1.4.3 Analytical Research Grade

1.4.4 Industrial Isotope Grade

1.5 Market Analysis by Isotopic Composition Form

1.5.1 Overview: Global Oxygen-18 Water Consumption Value by Isotopic Composition Form: 2021 Versus 2025 Versus 2032

1.5.2 ^{18}O

1.5.3 ^{16}O

1.5.4 H_2O

1.6 Market Analysis by Application

1.6.1 Overview: Global Oxygen-18 Water Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 PET Radiopharmaceutical Production

1.6.3 Life Science and Metabolic Research

1.6.4 Environmental Hydrological Analysis

1.6.5 Other

1.7 Global Oxygen-18 Water Market Size & Forecast

1.7.1 Global Oxygen-18 Water Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Oxygen-18 Water Sales Quantity (2021-2032)

1.7.3 Global Oxygen-18 Water Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Nippon Sanso

- 2.1.1 Nippon Sanso Details
- 2.1.2 Nippon Sanso Major Business
- 2.1.3 Nippon Sanso Oxygen-18 Water Product and Services
- 2.1.4 Nippon Sanso Oxygen-18 Water Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 Nippon Sanso Recent Developments/Updates
- 2.2 Rotem Industries
 - 2.2.1 Rotem Industries Details
 - 2.2.2 Rotem Industries Major Business
 - 2.2.3 Rotem Industries Oxygen-18 Water Product and Services
 - 2.2.4 Rotem Industries Oxygen-18 Water Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.2.5 Rotem Industries Recent Developments/Updates
- 2.3 Cambridge Isotope Laboratories
 - 2.3.1 Cambridge Isotope Laboratories Details
 - 2.3.2 Cambridge Isotope Laboratories Major Business
 - 2.3.3 Cambridge Isotope Laboratories Oxygen-18 Water Product and Services
 - 2.3.4 Cambridge Isotope Laboratories Oxygen-18 Water Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 Cambridge Isotope Laboratories Recent Developments/Updates
- 2.4 Marshall Isotopes
 - 2.4.1 Marshall Isotopes Details
 - 2.4.2 Marshall Isotopes Major Business
 - 2.4.3 Marshall Isotopes Oxygen-18 Water Product and Services
 - 2.4.4 Marshall Isotopes Oxygen-18 Water Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 Marshall Isotopes Recent Developments/Updates
- 2.5 Center of Molecular Research (CMR)
 - 2.5.1 Center of Molecular Research (CMR) Details
 - 2.5.2 Center of Molecular Research (CMR) Major Business
 - 2.5.3 Center of Molecular Research (CMR) Oxygen-18 Water Product and Services
 - 2.5.4 Center of Molecular Research (CMR) Oxygen-18 Water Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 Center of Molecular Research (CMR) Recent Developments/Updates
- 2.6 Heavy Water Board
 - 2.6.1 Heavy Water Board Details
 - 2.6.2 Heavy Water Board Major Business
 - 2.6.3 Heavy Water Board Oxygen-18 Water Product and Services
 - 2.6.4 Heavy Water Board Oxygen-18 Water Sales Quantity, Average Price, Revenue,

Gross Margin and Market Share (2021-2026)

2.6.5 Heavy Water Board Recent Developments/Updates

2.7 Mesbah Energy

2.7.1 Mesbah Energy Details

2.7.2 Mesbah Energy Major Business

2.7.3 Mesbah Energy Oxygen-18 Water Product and Services

2.7.4 Mesbah Energy Oxygen-18 Water Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

Gross Margin and Market Share (2021-2026)

2.7.5 Mesbah Energy Recent Developments/Updates

2.8 QuTope

2.8.1 QuTope Details

2.8.2 QuTope Major Business

2.8.3 QuTope Oxygen-18 Water Product and Services

2.8.4 QuTope Oxygen-18 Water Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

Gross Margin and Market Share (2021-2026)

2.8.5 QuTope Recent Developments/Updates

2.9 Wo Isotope

2.9.1 Wo Isotope Details

2.9.2 Wo Isotope Major Business

2.9.3 Wo Isotope Oxygen-18 Water Product and Services

2.9.4 Wo Isotope Oxygen-18 Water Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

Gross Margin and Market Share (2021-2026)

2.9.5 Wo Isotope Recent Developments/Updates

2.10 Jiangsu Huayi Technology

2.10.1 Jiangsu Huayi Technology Details

2.10.2 Jiangsu Huayi Technology Major Business

2.10.3 Jiangsu Huayi Technology Oxygen-18 Water Product and Services

2.10.4 Jiangsu Huayi Technology Oxygen-18 Water Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Jiangsu Huayi Technology Recent Developments/Updates

2.11 Shanghai Research Institute of Chemical Industry

2.11.1 Shanghai Research Institute of Chemical Industry Details

2.11.2 Shanghai Research Institute of Chemical Industry Major Business

2.11.3 Shanghai Research Institute of Chemical Industry Oxygen-18 Water Product and Services

2.11.4 Shanghai Research Institute of Chemical Industry Oxygen-18 Water Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Shanghai Research Institute of Chemical Industry Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: OXYGEN-18 WATER BY MANUFACTURER

- 3.1 Global Oxygen-18 Water Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Oxygen-18 Water Revenue by Manufacturer (2021-2026)
- 3.3 Global Oxygen-18 Water Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Oxygen-18 Water by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Oxygen-18 Water Manufacturer Market Share in 2025
 - 3.4.3 Top 6 Oxygen-18 Water Manufacturer Market Share in 2025
- 3.5 Oxygen-18 Water Market: Overall Company Footprint Analysis
 - 3.5.1 Oxygen-18 Water Market: Region Footprint
 - 3.5.2 Oxygen-18 Water Market: Company Product Type Footprint
 - 3.5.3 Oxygen-18 Water Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Oxygen-18 Water Market Size by Region
 - 4.1.1 Global Oxygen-18 Water Sales Quantity by Region (2021-2032)
 - 4.1.2 Global Oxygen-18 Water Consumption Value by Region (2021-2032)
 - 4.1.3 Global Oxygen-18 Water Average Price by Region (2021-2032)
- 4.2 North America Oxygen-18 Water Consumption Value (2021-2032)
- 4.3 Europe Oxygen-18 Water Consumption Value (2021-2032)
- 4.4 Asia-Pacific Oxygen-18 Water Consumption Value (2021-2032)
- 4.5 South America Oxygen-18 Water Consumption Value (2021-2032)
- 4.6 Middle East & Africa Oxygen-18 Water Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Oxygen-18 Water Sales Quantity by Type (2021-2032)
- 5.2 Global Oxygen-18 Water Consumption Value by Type (2021-2032)
- 5.3 Global Oxygen-18 Water Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Oxygen-18 Water Sales Quantity by Application (2021-2032)

6.2 Global Oxygen-18 Water Consumption Value by Application (2021-2032)

6.3 Global Oxygen-18 Water Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Oxygen-18 Water Sales Quantity by Type (2021-2032)

7.2 North America Oxygen-18 Water Sales Quantity by Application (2021-2032)

7.3 North America Oxygen-18 Water Market Size by Country

7.3.1 North America Oxygen-18 Water Sales Quantity by Country (2021-2032)

7.3.2 North America Oxygen-18 Water Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Oxygen-18 Water Sales Quantity by Type (2021-2032)

8.2 Europe Oxygen-18 Water Sales Quantity by Application (2021-2032)

8.3 Europe Oxygen-18 Water Market Size by Country

8.3.1 Europe Oxygen-18 Water Sales Quantity by Country (2021-2032)

8.3.2 Europe Oxygen-18 Water Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Oxygen-18 Water Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Oxygen-18 Water Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Oxygen-18 Water Market Size by Region

9.3.1 Asia-Pacific Oxygen-18 Water Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Oxygen-18 Water Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Oxygen-18 Water Sales Quantity by Type (2021-2032)

10.2 South America Oxygen-18 Water Sales Quantity by Application (2021-2032)

10.3 South America Oxygen-18 Water Market Size by Country

10.3.1 South America Oxygen-18 Water Sales Quantity by Country (2021-2032)

10.3.2 South America Oxygen-18 Water Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Oxygen-18 Water Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Oxygen-18 Water Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Oxygen-18 Water Market Size by Country

11.3.1 Middle East & Africa Oxygen-18 Water Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Oxygen-18 Water Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Oxygen-18 Water Market Drivers

12.2 Oxygen-18 Water Market Restraints

12.3 Oxygen-18 Water Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Oxygen-18 Water and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Oxygen-18 Water
- 13.3 Oxygen-18 Water Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Oxygen-18 Water Typical Distributors
- 14.3 Oxygen-18 Water Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Copper Oxide Powder Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Copper Oxide Powder Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 3. Jiangxi Jiangnan New Material Basic Information, Manufacturing Base and Competitors

Table 4. Jiangxi Jiangnan New Material Major Business

Table 5. Jiangxi Jiangnan New Material Copper Oxide Powder Product and Services

Table 6. Jiangxi Jiangnan New Material Copper Oxide Powder Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 7. Jiangxi Jiangnan New Material Recent Developments/Updates

Table 8. American Elements Basic Information, Manufacturing Base and Competitors

Table 9. American Elements Major Business

Table 10. American Elements Copper Oxide Powder Product and Services

Table 11. American Elements Copper Oxide Powder Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 12. American Elements Recent Developments/Updates

Table 13. Pride-Chem Basic Information, Manufacturing Base and Competitors

Table 14. Pride-Chem Major Business

Table 15. Pride-Chem Copper Oxide Powder Product and Services

Table 16. Pride-Chem Copper Oxide Powder Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 17. Pride-Chem Recent Developments/Updates

Table 18. Nanoshel Basic Information, Manufacturing Base and Competitors

Table 19. Nanoshel Major Business

Table 20. Nanoshel Copper Oxide Powder Product and Services

Table 21. Nanoshel Copper Oxide Powder Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 22. Nanoshel Recent Developments/Updates

Table 23. Skyspring Nanomaterials Inc. Basic Information, Manufacturing Base and Competitors

Table 24. Skyspring Nanomaterials Inc. Major Business

Table 25. Skyspring Nanomaterials Inc. Copper Oxide Powder Product and Services

Table 26. Skyspring Nanomaterials Inc. Copper Oxide Powder Sales Quantity

(Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 27. Skyspring Nanomaterials Inc. Recent Developments/Updates

Table 28. SAT Nano Technology Material Basic Information, Manufacturing Base and Competitors

Table 29. SAT Nano Technology Material Major Business

Table 30. SAT Nano Technology Material Copper Oxide Powder Product and Services

Table 31. SAT Nano Technology Material Copper Oxide Powder Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 32. SAT Nano Technology Material Recent Developments/Updates

Table 33. Parshva Chemicals Basic Information, Manufacturing Base and Competitors

Table 34. Parshva Chemicals Major Business

Table 35. Parshva Chemicals Copper Oxide Powder Product and Services

Table 36. Parshva Chemicals Copper Oxide Powder Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 37. Parshva Chemicals Recent Developments/Updates

Table 38. Accumet Materials Co Basic Information, Manufacturing Base and Competitors

Table 39. Accumet Materials Co Major Business

Table 40. Accumet Materials Co Copper Oxide Powder Product and Services

Table 41. Accumet Materials Co Copper Oxide Powder Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 42. Accumet Materials Co Recent Developments/Updates

Table 43. Pan - Continental Chemical Basic Information, Manufacturing Base and Competitors

Table 44. Pan - Continental Chemical Major Business

Table 45. Pan - Continental Chemical Copper Oxide Powder Product and Services

Table 46. Pan - Continental Chemical Copper Oxide Powder Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 47. Pan - Continental Chemical Recent Developments/Updates

Table 48. CDH Fine Chemical Basic Information, Manufacturing Base and Competitors

Table 49. CDH Fine Chemical Major Business

Table 50. CDH Fine Chemical Copper Oxide Powder Product and Services

Table 51. CDH Fine Chemical Copper Oxide Powder Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 52. CDH Fine Chemical Recent Developments/Updates

Table 53. Global Copper Oxide Powder Sales Quantity by Manufacturer (2021-2026) & (Kilotons)

Table 54. Global Copper Oxide Powder Revenue by Manufacturer (2021-2026) & (USD Million)

Table 55. Global Copper Oxide Powder Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 56. Market Position of Manufacturers in Copper Oxide Powder, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 57. Head Office and Copper Oxide Powder Production Site of Key Manufacturer

Table 58. Copper Oxide Powder Market: Company Product Type Footprint

Table 59. Copper Oxide Powder Market: Company Product Application Footprint

Table 60. Copper Oxide Powder New Market Entrants and Barriers to Market Entry

Table 61. Copper Oxide Powder Mergers, Acquisition, Agreements, and Collaborations

Table 62. Global Copper Oxide Powder Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 63. Global Copper Oxide Powder Sales Quantity by Region (2021-2026) & (Kilotons)

Table 64. Global Copper Oxide Powder Sales Quantity by Region (2027-2032) & (Kilotons)

Table 65. Global Copper Oxide Powder Consumption Value by Region (2021-2026) & (USD Million)

Table 66. Global Copper Oxide Powder Consumption Value by Region (2027-2032) & (USD Million)

Table 67. Global Copper Oxide Powder Average Price by Region (2021-2026) & (US\$/Ton)

Table 68. Global Copper Oxide Powder Average Price by Region (2027-2032) & (US\$/Ton)

Table 69. Global Copper Oxide Powder Sales Quantity by Type (2021-2026) & (Kilotons)

Table 70. Global Copper Oxide Powder Sales Quantity by Type (2027-2032) & (Kilotons)

Table 71. Global Copper Oxide Powder Consumption Value by Type (2021-2026) & (USD Million)

Table 72. Global Copper Oxide Powder Consumption Value by Type (2027-2032) & (USD Million)

Table 73. Global Copper Oxide Powder Average Price by Type (2021-2026) & (US\$/Ton)

Table 74. Global Copper Oxide Powder Average Price by Type (2027-2032) & (US\$/Ton)

Table 75. Global Copper Oxide Powder Sales Quantity by Application (2021-2026) & (Kilotons)

Table 76. Global Copper Oxide Powder Sales Quantity by Application (2027-2032) & (Kilotons)

Table 77. Global Copper Oxide Powder Consumption Value by Application (2021-2026) & (USD Million)

Table 78. Global Copper Oxide Powder Consumption Value by Application (2027-2032) & (USD Million)

Table 79. Global Copper Oxide Powder Average Price by Application (2021-2026) & (US\$/Ton)

Table 80. Global Copper Oxide Powder Average Price by Application (2027-2032) & (US\$/Ton)

Table 81. North America Copper Oxide Powder Sales Quantity by Type (2021-2026) & (Kilotons)

Table 82. North America Copper Oxide Powder Sales Quantity by Type (2027-2032) & (Kilotons)

Table 83. North America Copper Oxide Powder Sales Quantity by Application (2021-2026) & (Kilotons)

Table 84. North America Copper Oxide Powder Sales Quantity by Application (2027-2032) & (Kilotons)

Table 85. North America Copper Oxide Powder Sales Quantity by Country (2021-2026) & (Kilotons)

Table 86. North America Copper Oxide Powder Sales Quantity by Country (2027-2032) & (Kilotons)

Table 87. North America Copper Oxide Powder Consumption Value by Country (2021-2026) & (USD Million)

Table 88. North America Copper Oxide Powder Consumption Value by Country (2027-2032) & (USD Million)

Table 89. Europe Copper Oxide Powder Sales Quantity by Type (2021-2026) & (Kilotons)

Table 90. Europe Copper Oxide Powder Sales Quantity by Type (2027-2032) & (Kilotons)

Table 91. Europe Copper Oxide Powder Sales Quantity by Application (2021-2026) & (Kilotons)

Table 92. Europe Copper Oxide Powder Sales Quantity by Application (2027-2032) & (Kilotons)

Table 93. Europe Copper Oxide Powder Sales Quantity by Country (2021-2026) & (Kilotons)

Table 94. Europe Copper Oxide Powder Sales Quantity by Country (2027-2032) &

(Kilotons)

Table 95. Europe Copper Oxide Powder Consumption Value by Country (2021-2026) & (USD Million)

Table 96. Europe Copper Oxide Powder Consumption Value by Country (2027-2032) & (USD Million)

Table 97. Asia-Pacific Copper Oxide Powder Sales Quantity by Type (2021-2026) & (Kilotons)

Table 98. Asia-Pacific Copper Oxide Powder Sales Quantity by Type (2027-2032) & (Kilotons)

Table 99. Asia-Pacific Copper Oxide Powder Sales Quantity by Application (2021-2026) & (Kilotons)

Table 100. Asia-Pacific Copper Oxide Powder Sales Quantity by Application (2027-2032) & (Kilotons)

Table 101. Asia-Pacific Copper Oxide Powder Sales Quantity by Region (2021-2026) & (Kilotons)

Table 102. Asia-Pacific Copper Oxide Powder Sales Quantity by Region (2027-2032) & (Kilotons)

Table 103. Asia-Pacific Copper Oxide Powder Consumption Value by Region (2021-2026) & (USD Million)

Table 104. Asia-Pacific Copper Oxide Powder Consumption Value by Region (2027-2032) & (USD Million)

Table 105. South America Copper Oxide Powder Sales Quantity by Type (2021-2026) & (Kilotons)

Table 106. South America Copper Oxide Powder Sales Quantity by Type (2027-2032) & (Kilotons)

Table 107. South America Copper Oxide Powder Sales Quantity by Application (2021-2026) & (Kilotons)

Table 108. South America Copper Oxide Powder Sales Quantity by Application (2027-2032) & (Kilotons)

Table 109. South America Copper Oxide Powder Sales Quantity by Country (2021-2026) & (Kilotons)

Table 110. South America Copper Oxide Powder Sales Quantity by Country (2027-2032) & (Kilotons)

Table 111. South America Copper Oxide Powder Consumption Value by Country (2021-2026) & (USD Million)

Table 112. South America Copper Oxide Powder Consumption Value by Country (2027-2032) & (USD Million)

Table 113. Middle East & Africa Copper Oxide Powder Sales Quantity by Type (2021-2026) & (Kilotons)

Table 114. Middle East & Africa Copper Oxide Powder Sales Quantity by Type
(2027-2032) & (Kilotons)

Table 115. Middle East & Africa Copper Oxide Powder Sales Quantity by Application
(2021-2026) & (Kilotons)

Table 116. Middle East & Africa Copper Oxide Powder Sales Quantity by Application
(2027-2032) & (Kilotons)

Table 117. Middle East & Africa Copper Oxide Powder Sales Quantity by Country
(2021-2026) & (Kilotons)

Table 118. Middle East & Africa Copper Oxide Powder Sales Quantity by Country
(2027-2032) & (Kilotons)

Table 119. Middle East & Africa Copper Oxide Powder Consumption Value by Country
(2021-2026) & (USD Million)

Table 120. Middle East & Africa Copper Oxide Powder Consumption Value by Country
(2027-2032) & (USD Million)

Table 121. Copper Oxide Powder Raw Material

Table 122. Key Manufacturers of Copper Oxide Powder Raw Materials

Table 123. Copper Oxide Powder Typical Distributors

Table 124. Copper Oxide Powder Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Copper Oxide Powder Picture

Figure 2. Global Copper Oxide Powder Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Copper Oxide Powder Revenue Market Share by Type in 2025

Figure 4. 99% Examples

Figure 5. 99.5% Examples

Figure 6. 99% Examples

Figure 7. 99.99% Examples

Figure 8. Others Examples

Figure 9. Global Copper Oxide Powder Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 10. Global Copper Oxide Powder Revenue Market Share by Application in 2025

Figure 11. Electronics Examples

Figure 12. Printing and Dyeing Examples

Figure 13. Glass Examples

Figure 14. Ceramics Examples

Figure 15. Medicine Examples

Figure 16. Catalysis Examples

Figure 17. Coatings Examples

Figure 18. Others Examples

Figure 19. Others Examples

Figure 20. Global Copper Oxide Powder Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 21. Global Copper Oxide Powder Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 22. Global Copper Oxide Powder Sales Quantity (2021-2032) & (Kilotons)

Figure 23. Global Copper Oxide Powder Price (2021-2032) & (US\$/Ton)

Figure 24. Global Copper Oxide Powder Sales Quantity Market Share by Manufacturer in 2025

Figure 25. Global Copper Oxide Powder Revenue Market Share by Manufacturer in 2025

Figure 26. Producer Shipments of Copper Oxide Powder by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 27. Top 3 Copper Oxide Powder Manufacturer (Revenue) Market Share in 2025

Figure 28. Top 6 Copper Oxide Powder Manufacturer (Revenue) Market Share in 2025

Figure 29. Global Copper Oxide Powder Sales Quantity Market Share by Region (2021-2032)

Figure 30. Global Copper Oxide Powder Consumption Value Market Share by Region (2021-2032)

Figure 31. North America Copper Oxide Powder Consumption Value (2021-2032) & (USD Million)

Figure 32. Europe Copper Oxide Powder Consumption Value (2021-2032) & (USD Million)

Figure 33. Asia-Pacific Copper Oxide Powder Consumption Value (2021-2032) & (USD Million)

Figure 34. South America Copper Oxide Powder Consumption Value (2021-2032) & (USD Million)

Figure 35. Middle East & Africa Copper Oxide Powder Consumption Value (2021-2032) & (USD Million)

Figure 36. Global Copper Oxide Powder Sales Quantity Market Share by Type (2021-2032)

Figure 37. Global Copper Oxide Powder Consumption Value Market Share by Type (2021-2032)

Figure 38. Global Copper Oxide Powder Average Price by Type (2021-2032) & (US\$/Ton)

Figure 39. Global Copper Oxide Powder Sales Quantity Market Share by Application (2021-2032)

Figure 40. Global Copper Oxide Powder Revenue Market Share by Application (2021-2032)

Figure 41. Global Copper Oxide Powder Average Price by Application (2021-2032) & (US\$/Ton)

Figure 42. North America Copper Oxide Powder Sales Quantity Market Share by Type (2021-2032)

Figure 43. North America Copper Oxide Powder Sales Quantity Market Share by Application (2021-2032)

Figure 44. North America Copper Oxide Powder Sales Quantity Market Share by Country (2021-2032)

Figure 45. North America Copper Oxide Powder Consumption Value Market Share by Country (2021-2032)

Figure 46. United States Copper Oxide Powder Consumption Value (2021-2032) & (USD Million)

Figure 47. Canada Copper Oxide Powder Consumption Value (2021-2032) & (USD Million)

Figure 48. Mexico Copper Oxide Powder Consumption Value (2021-2032) & (USD

Million)

Figure 49. Europe Copper Oxide Powder Sales Quantity Market Share by Type (2021-2032)

Figure 50. Europe Copper Oxide Powder Sales Quantity Market Share by Application (2021-2032)

Figure 51. Europe Copper Oxide Powder Sales Quantity Market Share by Country (2021-2032)

Figure 52. Europe Copper Oxide Powder Consumption Value Market Share by Country (2021-2032)

Figure 53. Germany Copper Oxide Powder Consumption Value (2021-2032) & (USD Million)

Figure 54. France Copper Oxide Powder Consumption Value (2021-2032) & (USD Million)

Figure 55. United Kingdom Copper Oxide Powder Consumption Value (2021-2032) & (USD Million)

Figure 56. Russia Copper Oxide Powder Consumption Value (2021-2032) & (USD Million)

Figure 57. Italy Copper Oxide Powder Consumption Value (2021-2032) & (USD Million)

Figure 58. Asia-Pacific Copper Oxide Powder Sales Quantity Market Share by Type (2021-2032)

Figure 59. Asia-Pacific Copper Oxide Powder Sales Quantity Market Share by Application (2021-2032)

Figure 60. Asia-Pacific Copper Oxide Powder Sales Quantity Market Share by Region (2021-2032)

Figure 61. Asia-Pacific Copper Oxide Powder Consumption Value Market Share by Region (2021-2032)

Figure 62. China Copper Oxide Powder Consumption Value (2021-2032) & (USD Million)

Figure 63. Japan Copper Oxide Powder Consumption Value (2021-2032) & (USD Million)

Figure 64. South Korea Copper Oxide Powder Consumption Value (2021-2032) & (USD Million)

Figure 65. India Copper Oxide Powder Consumption Value (2021-2032) & (USD Million)

Figure 66. Southeast Asia Copper Oxide Powder Consumption Value (2021-2032) & (USD Million)

Figure 67. Australia Copper Oxide Powder Consumption Value (2021-2032) & (USD Million)

Figure 68. South America Copper Oxide Powder Sales Quantity Market Share by Type (2021-2032)

- Figure 69. South America Copper Oxide Powder Sales Quantity Market Share by Application (2021-2032)
- Figure 70. South America Copper Oxide Powder Sales Quantity Market Share by Country (2021-2032)
- Figure 71. South America Copper Oxide Powder Consumption Value Market Share by Country (2021-2032)
- Figure 72. Brazil Copper Oxide Powder Consumption Value (2021-2032) & (USD Million)
- Figure 73. Argentina Copper Oxide Powder Consumption Value (2021-2032) & (USD Million)
- Figure 74. Middle East & Africa Copper Oxide Powder Sales Quantity Market Share by Type (2021-2032)
- Figure 75. Middle East & Africa Copper Oxide Powder Sales Quantity Market Share by Application (2021-2032)
- Figure 76. Middle East & Africa Copper Oxide Powder Sales Quantity Market Share by Country (2021-2032)
- Figure 77. Middle East & Africa Copper Oxide Powder Consumption Value Market Share by Country (2021-2032)
- Figure 78. Turkey Copper Oxide Powder Consumption Value (2021-2032) & (USD Million)
- Figure 79. Egypt Copper Oxide Powder Consumption Value (2021-2032) & (USD Million)
- Figure 80. Saudi Arabia Copper Oxide Powder Consumption Value (2021-2032) & (USD Million)
- Figure 81. South Africa Copper Oxide Powder Consumption Value (2021-2032) & (USD Million)
- Figure 82. Copper Oxide Powder Market Drivers
- Figure 83. Copper Oxide Powder Market Restraints
- Figure 84. Copper Oxide Powder Market Trends
- Figure 85. Porters Five Forces Analysis
- Figure 86. Manufacturing Cost Structure Analysis of Copper Oxide Powder in 2025
- Figure 87. Manufacturing Process Analysis of Copper Oxide Powder
- Figure 88. Copper Oxide Powder Industrial Chain
- Figure 89. Sales Channel: Direct to End-User vs Distributors
- Figure 90. Direct Channel Pros & Cons
- Figure 91. Indirect Channel Pros & Cons
- Figure 92. Methodology
- Figure 93. Research Process and Data Source

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