

# Thallium Industry Research Report 2024

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## Abstracts

### Summary

Thallium (CAS 7440-28-0) is a chemical element with symbol Tl and atomic number 81. This soft gray post-transition metal is not found free in nature. When isolated, it resembles tin, but discolors when exposed to air. Chemists William Crookes and Claude-Auguste Lamy discovered thallium independently in 1861, in residues of sulfuric acid production. Both used the newly developed method of flame spectroscopy, in which thallium produces a notable green spectral line.

Thallium (CAS 7440-28-0) tends to oxidize to the +3 and +1 oxidation states as ionic salts. The +3 state resembles that of the other elements in group 13 (boron, aluminium, gallium, and indium). However, the +1 state, which is far more prominent in thallium than the elements above it, recalls the chemistry of alkali metals, and thallium(I) ions are found geologically mostly in potassium-based ores, and (when ingested) are handled in many ways like potassium ions (K<sup>+</sup>) by ion pumps in living cells.

Soluble thallium salts (many of which are nearly tasteless) are highly toxic in quantity, and were historically used in rat poisons and insecticides. Use of these compounds has been restricted or banned in many countries, because of their nonselective toxicity. Notably, thallium poisoning results in hair loss. Because of its historic popularity as a murder weapon, thallium has gained notoriety as 'the poisoner's poison' and 'inheritance powder' (alongside arsenic).

According to APO Research, The global Thallium market was valued at US\$ million in 2023 and is anticipated to reach US\$ million by 2030, witnessing a CAGR of xx% during the forecast period 2024-2030.

North American market for Thallium is estimated to increase from \$ million in 2024 to

reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Asia-Pacific market for Thallium is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Europe market for Thallium is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The major global manufacturers of Thallium include , etc. In 2023, the world's top three vendors accounted for approximately % of the revenue.

## Report Scope

This report aims to provide a comprehensive presentation of the global market for Thallium, with both quantitative and qualitative analysis, to help readers develop business/growth strategies, assess the market competitive situation, analyze their position in the current marketplace, and make informed business decisions regarding Thallium.

The report will help the Thallium manufacturers, new entrants, and industry chain related companies in this market with information on the revenues, sales volume, and average price for the overall market and the sub-segments across the different segments, by company, by Type, by Application, and by regions.

The Thallium market size, estimations, and forecasts are provided in terms of sales volume (Kg) and revenue (\$ millions), considering 2023 as the base year, with history and forecast data for the period from 2019 to 2030. This report segments the global Thallium market comprehensively. Regional market sizes, concerning products by Type, by Application, and by players, are also provided. For a more in-depth understanding of the market, the report provides profiles of the competitive landscape, key competitors, and their respective market ranks. The report also discusses technological trends and new product developments.

## Key Companies & Market Share Insights

In this section, the readers will gain an understanding of the key players competing. This report has studied the key growth strategies, such as innovative trends and developments, intensification of product portfolio, mergers and acquisitions,

collaborations, new product innovation, and geographical expansion, undertaken by these participants to maintain their presence. Apart from business strategies, the study includes current developments and key financials. The readers will also get access to the data related to global revenue, price, and sales by manufacturers for the period 2019-2024. This all-inclusive report will certainly serve the clients to stay updated and make effective decisions in their businesses. Some of the prominent players reviewed in the research report include:

Kazzinc

China Minmetals Non-Ferrous Metals

Umicore

JX Nippon Mining&Metals Corp

Sumitomo Metal Mining Co., Ltd,

ESPI Metals

Titan group

Eastman

Strem Chemicals, Inc.

Alfa Aesar

Sigma-Aldrich

Thallium segment by Type

Thallium Granular

Thallium Rod

Others

## Thallium segment by Application

Optics

Electronics

High-Temperature Superconductivity

Others

## Thallium Segment by Region

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Russia

Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

Latin America

Mexico

Brazil

Argentina

Middle East & Africa

Turkey

Saudi Arabia

UAE

## Key Drivers & Barriers

High-impact rendering factors and drivers have been studied in this report to aid the readers to understand the general development. Moreover, the report includes restraints and challenges that may act as stumbling blocks on the way of the players. This will assist the users to be attentive and make informed decisions related to business. Specialists have also laid their focus on the upcoming business prospects.

## Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Thallium market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.
2. This report will help stakeholders to understand the global industry status and trends of Thallium and provides them with information on key market drivers, restraints, challenges, and opportunities.
3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.
4. This report stays updated with novel technology integration, features, and the latest developments in the market
5. This report helps stakeholders to gain insights into which regions to target globally
6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Thallium.
7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

## Chapter Outline

Chapter 1: Research objectives, research methods, data sources, data cross-validation;

Chapter 2: Introduces the report scope of the report, executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the market and its likely evolution in the short to mid-term, and long term.

Chapter 3: Detailed analysis of Thallium manufacturers competitive landscape, price,

production and value market share, latest development plan, merger, and acquisition information, etc.

Chapter 4: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product production/output, value, price, gross margin, product introduction, recent development, etc.

Chapter 5: Production/output, value of Thallium by region/country. It provides a quantitative analysis of the market size and development potential of each region in the next six years.

Chapter 6: Consumption of Thallium in regional level and country level. It provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and production of each country in the world.

Chapter 7: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 8: Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 9: Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10: Introduces the market dynamics, latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 11: The main points and conclusions of the report.

## Contents

### 1 PREFACE

- 1.1 Scope of Report
- 1.2 Reasons for Doing This Study
- 1.3 Research Methodology
- 1.4 Research Process
- 1.5 Data Source
  - 1.5.1 Secondary Sources
  - 1.5.2 Primary Sources

### 2 MARKET OVERVIEW

- 2.1 Product Definition
- 2.2 Thallium by Type
  - 2.2.1 Market Value Comparison by Type (2019 VS 2023 VS 2030) & (US\$ Million)
  - 2.2.2 Thallium Granular
  - 2.2.3 Thallium Rod
  - 2.2.4 Others
- 2.3 Thallium by Application
  - 2.3.1 Market Value Comparison by Application (2019 VS 2023 VS 2030) & (US\$ Million)
  - 2.3.2 Optics
  - 2.3.3 Electronics
  - 2.3.4 High-Temperature Superconductivity
  - 2.3.5 Others
- 2.4 Global Market Growth Prospects
  - 2.4.1 Global Thallium Production Value Estimates and Forecasts (2019-2030)
  - 2.4.2 Global Thallium Production Capacity Estimates and Forecasts (2019-2030)
  - 2.4.3 Global Thallium Production Estimates and Forecasts (2019-2030)
  - 2.4.4 Global Thallium Market Average Price (2019-2030)

### 3 MARKET COMPETITIVE LANDSCAPE BY MANUFACTURERS

- 3.1 Global Thallium Production by Manufacturers (2019-2024)
- 3.2 Global Thallium Production Value by Manufacturers (2019-2024)
- 3.3 Global Thallium Average Price by Manufacturers (2019-2024)
- 3.4 Global Thallium Industry Manufacturers Ranking, 2022 VS 2023 VS 2024



- 3.5 Global Thallium Key Manufacturers, Manufacturing Sites & Headquarters
- 3.6 Global Thallium Manufacturers, Product Type & Application
- 3.7 Global Thallium Manufacturers, Date of Enter into This Industry
- 3.8 Global Thallium Market CR5 and HHI
- 3.9 Global Manufacturers Mergers & Acquisition

## **4 MANUFACTURERS PROFILED**

### 4.1 Kazzinc

- 4.1.1 Kazzinc Thallium Company Information
- 4.1.2 Kazzinc Thallium Business Overview
- 4.1.3 Kazzinc Thallium Production Capacity, Value and Gross Margin (2019-2024)
- 4.1.4 Kazzinc Product Portfolio
- 4.1.5 Kazzinc Recent Developments

### 4.2 China Minmetals Non-Ferrous Metals

- 4.2.1 China Minmetals Non-Ferrous Metals Thallium Company Information
- 4.2.2 China Minmetals Non-Ferrous Metals Thallium Business Overview
- 4.2.3 China Minmetals Non-Ferrous Metals Thallium Production Capacity, Value and Gross Margin (2019-2024)
- 4.2.4 China Minmetals Non-Ferrous Metals Product Portfolio
- 4.2.5 China Minmetals Non-Ferrous Metals Recent Developments

### 4.3 Umicore

- 4.3.1 Umicore Thallium Company Information
- 4.3.2 Umicore Thallium Business Overview
- 4.3.3 Umicore Thallium Production Capacity, Value and Gross Margin (2019-2024)
- 4.3.4 Umicore Product Portfolio
- 4.3.5 Umicore Recent Developments

### 4.4 JX Nippon Mining&Metals Corp

- 4.4.1 JX Nippon Mining&Metals Corp Thallium Company Information
- 4.4.2 JX Nippon Mining&Metals Corp Thallium Business Overview
- 4.4.3 JX Nippon Mining&Metals Corp Thallium Production Capacity, Value and Gross Margin (2019-2024)
- 4.4.4 JX Nippon Mining&Metals Corp Product Portfolio
- 4.4.5 JX Nippon Mining&Metals Corp Recent Developments

### 4.5 Sumitomo Metal Mining Co., Ltd,

- 4.5.1 Sumitomo Metal Mining Co., Ltd, Thallium Company Information
- 4.5.2 Sumitomo Metal Mining Co., Ltd, Thallium Business Overview
- 4.5.3 Sumitomo Metal Mining Co., Ltd, Thallium Production Capacity, Value and Gross Margin (2019-2024)

- 4.5.4 Sumitomo Metal Mining Co., Ltd, Product Portfolio
- 4.5.5 Sumitomo Metal Mining Co., Ltd, Recent Developments
- 4.6 ESPI Metals
  - 4.6.1 ESPI Metals Thallium Company Information
  - 4.6.2 ESPI Metals Thallium Business Overview
  - 4.6.3 ESPI Metals Thallium Production Capacity, Value and Gross Margin (2019-2024)
  - 4.6.4 ESPI Metals Product Portfolio
  - 4.6.5 ESPI Metals Recent Developments
- 4.7 Titan group
  - 4.7.1 Titan group Thallium Company Information
  - 4.7.2 Titan group Thallium Business Overview
  - 4.7.3 Titan group Thallium Production Capacity, Value and Gross Margin (2019-2024)
  - 4.7.4 Titan group Product Portfolio
  - 4.7.5 Titan group Recent Developments
- 4.8 Eastman
  - 4.8.1 Eastman Thallium Company Information
  - 4.8.2 Eastman Thallium Business Overview
  - 4.8.3 Eastman Thallium Production Capacity, Value and Gross Margin (2019-2024)
  - 4.8.4 Eastman Product Portfolio
  - 4.8.5 Eastman Recent Developments
- 4.9 Strem Chemicals, Inc.
  - 4.9.1 Strem Chemicals, Inc. Thallium Company Information
  - 4.9.2 Strem Chemicals, Inc. Thallium Business Overview
  - 4.9.3 Strem Chemicals, Inc. Thallium Production Capacity, Value and Gross Margin (2019-2024)
  - 4.9.4 Strem Chemicals, Inc. Product Portfolio
  - 4.9.5 Strem Chemicals, Inc. Recent Developments
- 4.10 Alfa Aesar
  - 4.10.1 Alfa Aesar Thallium Company Information
  - 4.10.2 Alfa Aesar Thallium Business Overview
  - 4.10.3 Alfa Aesar Thallium Production Capacity, Value and Gross Margin (2019-2024)
  - 4.10.4 Alfa Aesar Product Portfolio
  - 4.10.5 Alfa Aesar Recent Developments
- 4.11 Sigma-Aldrich
  - 4.11.1 Sigma-Aldrich Thallium Company Information
  - 4.11.2 Sigma-Aldrich Thallium Business Overview
  - 4.11.3 Sigma-Aldrich Thallium Production Capacity, Value and Gross Margin (2019-2024)
  - 4.11.4 Sigma-Aldrich Product Portfolio

#### 4.11.5 Sigma-Aldrich Recent Developments

## **5 GLOBAL THALLIUM PRODUCTION BY REGION**

### 5.1 Global Thallium Production Estimates and Forecasts by Region: 2019 VS 2023 VS 2030

### 5.2 Global Thallium Production by Region: 2019-2030

#### 5.2.1 Global Thallium Production by Region: 2019-2024

#### 5.2.2 Global Thallium Production Forecast by Region (2025-2030)

### 5.3 Global Thallium Production Value Estimates and Forecasts by Region: 2019 VS 2023 VS 2030

### 5.4 Global Thallium Production Value by Region: 2019-2030

#### 5.4.1 Global Thallium Production Value by Region: 2019-2024

#### 5.4.2 Global Thallium Production Value Forecast by Region (2025-2030)

### 5.5 Global Thallium Market Price Analysis by Region (2019-2024)

### 5.6 Global Thallium Production and Value, YOY Growth

#### 5.6.1 North America Thallium Production Value Estimates and Forecasts (2019-2030)

#### 5.6.2 Europe Thallium Production Value Estimates and Forecasts (2019-2030)

#### 5.6.3 China Thallium Production Value Estimates and Forecasts (2019-2030)

#### 5.6.4 Japan Thallium Production Value Estimates and Forecasts (2019-2030)

## **6 GLOBAL THALLIUM CONSUMPTION BY REGION**

### 6.1 Global Thallium Consumption Estimates and Forecasts by Region: 2019 VS 2023 VS 2030

### 6.2 Global Thallium Consumption by Region (2019-2030)

#### 6.2.1 Global Thallium Consumption by Region: 2019-2030

#### 6.2.2 Global Thallium Forecasted Consumption by Region (2025-2030)

### 6.3 North America

#### 6.3.1 North America Thallium Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

#### 6.3.2 North America Thallium Consumption by Country (2019-2030)

#### 6.3.3 U.S.

#### 6.3.4 Canada

### 6.4 Europe

#### 6.4.1 Europe Thallium Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

#### 6.4.2 Europe Thallium Consumption by Country (2019-2030)

#### 6.4.3 Germany

#### 6.4.4 France

6.4.5 U.K.

6.4.6 Italy

6.4.7 Russia

6.5 Asia Pacific

6.5.1 Asia Pacific Thallium Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

6.5.2 Asia Pacific Thallium Consumption by Country (2019-2030)

6.5.3 China

6.5.4 Japan

6.5.5 South Korea

6.5.6 China Taiwan

6.5.7 Southeast Asia

6.5.8 India

6.5.9 Australia

6.6 Latin America, Middle East & Africa

6.6.1 Latin America, Middle East & Africa Thallium Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

6.6.2 Latin America, Middle East & Africa Thallium Consumption by Country (2019-2030)

6.6.3 Mexico

6.6.4 Brazil

6.6.5 Turkey

6.6.5 GCC Countries

## **7 SEGMENT BY TYPE**

7.1 Global Thallium Production by Type (2019-2030)

7.1.1 Global Thallium Production by Type (2019-2030) & (Kg)

7.1.2 Global Thallium Production Market Share by Type (2019-2030)

7.2 Global Thallium Production Value by Type (2019-2030)

7.2.1 Global Thallium Production Value by Type (2019-2030) & (US\$ Million)

7.2.2 Global Thallium Production Value Market Share by Type (2019-2030)

7.3 Global Thallium Price by Type (2019-2030)

## **8 SEGMENT BY APPLICATION**

8.1 Global Thallium Production by Application (2019-2030)

8.1.1 Global Thallium Production by Application (2019-2030) & (Kg)

8.1.2 Global Thallium Production by Application (2019-2030) & (Kg)

## 8.2 Global Thallium Production Value by Application (2019-2030)

8.2.1 Global Thallium Production Value by Application (2019-2030) & (US\$ Million)

8.2.2 Global Thallium Production Value Market Share by Application (2019-2030)

## 8.3 Global Thallium Price by Application (2019-2030)

# 9 VALUE CHAIN AND SALES CHANNELS ANALYSIS OF THE MARKET

## 9.1 Thallium Value Chain Analysis

9.1.1 Thallium Key Raw Materials

9.1.2 Raw Materials Key Suppliers

9.1.3 Thallium Production Mode & Process

## 9.2 Thallium Sales Channels Analysis

9.2.1 Direct Comparison with Distribution Share

9.2.2 Thallium Distributors

9.2.3 Thallium Customers

# 10 GLOBAL THALLIUM ANALYZING MARKET DYNAMICS

## 10.1 Thallium Industry Trends

## 10.2 Thallium Industry Drivers

## 10.3 Thallium Industry Opportunities and Challenges

## 10.4 Thallium Industry Restraints

# 11 REPORT CONCLUSION

# 12 DISCLAIMER

## List Of Tables

### LIST OF TABLES

Table 1. Secondary Sources

Table 2. Primary Sources

Table 3. Market Value Comparison by Type (2019 VS 2023 VS 2030) & (US\$ Million)

Table 4. Market Value Comparison by Application (2019 VS 2023 VS 2030) & (US\$ Million)

Table 5. Global Thallium Production by Manufacturers (Kg) & (2019-2024)

Table 6. Global Thallium Production Market Share by Manufacturers

Table 7. Global Thallium Production Value by Manufacturers (US\$ Million) & (2019-2024)

Table 8. Global Thallium Production Value Market Share by Manufacturers (2019-2024)

Table 9. Global Thallium Average Price (USD/Kg) of Key Manufacturers (2019-2024)

Table 10. Global Thallium Industry Manufacturers Ranking, 2022 VS 2023 VS 2024

Table 11. Global Thallium Manufacturers, Product Type & Application

Table 12. Global Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 13. Global Thallium by Manufacturers Type (Tier 1, Tier 2, and Tier 3) & (based on the Production Value of 2023)

Table 14. Manufacturers Mergers & Acquisitions, Expansion Plans)

Table 15. Kazzinc Thallium Company Information

Table 16. Kazzinc Business Overview

Table 17. Kazzinc Thallium Production Capacity (Kg), Value (US\$ Million), Price (USD/Kg) and Gross Margin (2019-2024)

Table 18. Kazzinc Product Portfolio

Table 19. Kazzinc Recent Developments

Table 20. China Minmetals Non-Ferrous Metals Thallium Company Information

Table 21. China Minmetals Non-Ferrous Metals Business Overview

Table 22. China Minmetals Non-Ferrous Metals Thallium Production Capacity (Kg), Value (US\$ Million), Price (USD/Kg) and Gross Margin (2019-2024)

Table 23. China Minmetals Non-Ferrous Metals Product Portfolio

Table 24. China Minmetals Non-Ferrous Metals Recent Developments

Table 25. Umicore Thallium Company Information

Table 26. Umicore Business Overview

Table 27. Umicore Thallium Production Capacity (Kg), Value (US\$ Million), Price (USD/Kg) and Gross Margin (2019-2024)

Table 28. Umicore Product Portfolio

Table 29. Umicore Recent Developments



- Table 30. JX Nippon Mining&Metals Corp Thallium Company Information
- Table 31. JX Nippon Mining&Metals Corp Business Overview
- Table 32. JX Nippon Mining&Metals Corp Thallium Production Capacity (Kg), Value (US\$ Million), Price (USD/Kg) and Gross Margin (2019-2024)
- Table 33. JX Nippon Mining&Metals Corp Product Portfolio
- Table 34. JX Nippon Mining&Metals Corp Recent Developments
- Table 35. Sumitomo Metal Mining Co., Ltd, Thallium Company Information
- Table 36. Sumitomo Metal Mining Co., Ltd, Business Overview
- Table 37. Sumitomo Metal Mining Co., Ltd, Thallium Production Capacity (Kg), Value (US\$ Million), Price (USD/Kg) and Gross Margin (2019-2024)
- Table 38. Sumitomo Metal Mining Co., Ltd, Product Portfolio
- Table 39. Sumitomo Metal Mining Co., Ltd, Recent Developments
- Table 40. ESPI Metals Thallium Company Information
- Table 41. ESPI Metals Business Overview
- Table 42. ESPI Metals Thallium Production Capacity (Kg), Value (US\$ Million), Price (USD/Kg) and Gross Margin (2019-2024)
- Table 43. ESPI Metals Product Portfolio
- Table 44. ESPI Metals Recent Developments
- Table 45. Titan group Thallium Company Information
- Table 46. Titan group Business Overview
- Table 47. Titan group Thallium Production Capacity (Kg), Value (US\$ Million), Price (USD/Kg) and Gross Margin (2019-2024)
- Table 48. Titan group Product Portfolio
- Table 49. Titan group Recent Developments
- Table 50. Eastman Thallium Company Information
- Table 51. Eastman Business Overview
- Table 52. Eastman Thallium Production Capacity (Kg), Value (US\$ Million), Price (USD/Kg) and Gross Margin (2019-2024)
- Table 53. Eastman Product Portfolio
- Table 54. Eastman Recent Developments
- Table 55. Strem Chemicals, Inc. Thallium Company Information
- Table 56. Strem Chemicals, Inc. Business Overview
- Table 57. Strem Chemicals, Inc. Thallium Production Capacity (Kg), Value (US\$ Million), Price (USD/Kg) and Gross Margin (2019-2024)
- Table 58. Strem Chemicals, Inc. Product Portfolio
- Table 59. Strem Chemicals, Inc. Recent Developments
- Table 60. Alfa Aesar Thallium Company Information
- Table 61. Alfa Aesar Business Overview
- Table 62. Alfa Aesar Thallium Production Capacity (Kg), Value (US\$ Million), Price

(USD/Kg) and Gross Margin (2019-2024)

Table 63. Alfa Aesar Product Portfolio

Table 64. Alfa Aesar Recent Developments

Table 65. Sigma-Aldrich Thallium Company Information

Table 66. Sigma-Aldrich Business Overview

Table 67. Sigma-Aldrich Thallium Production Capacity (Kg), Value (US\$ Million), Price (USD/Kg) and Gross Margin (2019-2024)

Table 68. Sigma-Aldrich Product Portfolio

Table 69. Sigma-Aldrich Recent Developments

Table 70. Global Thallium Production Comparison by Region: 2019 VS 2023 VS 2030 (Kg)

Table 71. Global Thallium Production by Region (2019-2024) & (Kg)

Table 72. Global Thallium Production Market Share by Region (2019-2024)

Table 73. Global Thallium Production Forecast by Region (2025-2030) & (Kg)

Table 74. Global Thallium Production Market Share Forecast by Region (2025-2030)

Table 75. Global Thallium Production Value Comparison by Region: 2019 VS 2023 VS 2030 (US\$ Million)

Table 76. Global Thallium Production Value by Region (2019-2024) & (US\$ Million)

Table 77. Global Thallium Production Value Market Share by Region (2019-2024)

Table 78. Global Thallium Production Value Forecast by Region (2025-2030) & (US\$ Million)

Table 79. Global Thallium Production Value Market Share Forecast by Region (2025-2030)

Table 80. Global Thallium Market Average Price (USD/Kg) by Region (2019-2024)

Table 81. Global Thallium Consumption Comparison by Region: 2019 VS 2023 VS 2030 (Kg)

Table 82. Global Thallium Consumption by Region (2019-2024) & (Kg)

Table 83. Global Thallium Consumption Market Share by Region (2019-2024)

Table 84. Global Thallium Forecasted Consumption by Region (2025-2030) & (Kg)

Table 85. Global Thallium Forecasted Consumption Market Share by Region (2025-2030)

Table 86. North America Thallium Consumption Growth Rate by Country: 2019 VS 2023 VS 2030 (Kg)

Table 87. North America Thallium Consumption by Country (2019-2024) & (Kg)

Table 88. North America Thallium Consumption by Country (2025-2030) & (Kg)

Table 89. Europe Thallium Consumption Growth Rate by Country: 2019 VS 2023 VS 2030 (Kg)

Table 90. Europe Thallium Consumption by Country (2019-2024) & (Kg)

Table 91. Europe Thallium Consumption by Country (2025-2030) & (Kg)



Table 92. Asia Pacific Thallium Consumption Growth Rate by Country: 2019 VS 2023 VS 2030 (Kg)

Table 93. Asia Pacific Thallium Consumption by Country (2019-2024) & (Kg)

Table 94. Asia Pacific Thallium Consumption by Country (2025-2030) & (Kg)

Table 95. Latin America, Middle East & Africa Thallium Consumption Growth Rate by Country: 2019 VS 2023 VS 2030 (Kg)

Table 96. Latin America, Middle East & Africa Thallium Consumption by Country (2019-2024) & (Kg)

Table 97. Latin America, Middle East & Africa Thallium Consumption by Country (2025-2030) & (Kg)

Table 98. Global Thallium Production by Type (2019-2024) & (Kg)

Table 99. Global Thallium Production by Type (2025-2030) & (Kg)

Table 100. Global Thallium Production Market Share by Type (2019-2024)

Table 101. Global Thallium Production Market Share by Type (2025-2030)

Table 102. Global Thallium Production Value by Type (2019-2024) & (US\$ Million)

Table 103. Global Thallium Production Value by Type (2025-2030) & (US\$ Million)

Table 104. Global Thallium Production Value Market Share by Type (2019-2024)

Table 105. Global Thallium Production Value Market Share by Type (2025-2030)

Table 106. Global Thallium Price by Type (2019-2024) & (USD/Kg)

Table 107. Global Thallium Price by Type (2025-2030) & (USD/Kg)

Table 108. Global Thallium Production by Application (2019-2024) & (Kg)

Table 109. Global Thallium Production by Application (2025-2030) & (Kg)

Table 110. Global Thallium Production Market Share by Application (2019-2024)

Table 111. Global Thallium Production Market Share by Application (2025-2030)

Table 112. Global Thallium Production Value by Application (2019-2024) & (US\$ Million)

Table 113. Global Thallium Production Value by Application (2025-2030) & (US\$ Million)

Table 114. Global Thallium Production Value Market Share by Application (2019-2024)

Table 115. Global Thallium Production Value Market Share by Application (2025-2030)

Table 116. Global Thallium Price by Application (2019-2024) & (USD/Kg)

Table 117. Global Thallium Price by Application (2025-2030) & (USD/Kg)

Table 118. Key Raw Materials

Table 119. Raw Materials Key Suppliers

Table 120. Thallium Distributors List

Table 121. Thallium Customers List

Table 122. Thallium Industry Trends

Table 123. Thallium Industry Drivers

Table 124. Thallium Industry Restraints

Table 125. Authors List of This Report

## List Of Figures

### LIST OF FIGURES

- Figure 1. Research Methodology
- Figure 2. Research Process
- Figure 3. Key Executives Interviewed
- Figure 4. Thallium Product Picture
- Figure 5. Market Value Comparison by Type (2019 VS 2023 VS 2030) & (US\$ Million)
- Figure 6. Thallium Granular Product Picture
- Figure 7. Thallium Rod Product Picture
- Figure 8. Others Product Picture
- Figure 9. Optics Product Picture
- Figure 10. Electronics Product Picture
- Figure 11. High-Temperature Superconductivity Product Picture
- Figure 12. Others Product Picture
- Figure 13. Global Thallium Production Value (US\$ Million), 2019 VS 2023 VS 2030
- Figure 14. Global Thallium Production Value (2019-2030) & (US\$ Million)
- Figure 15. Global Thallium Production Capacity (2019-2030) & (Kg)
- Figure 16. Global Thallium Production (2019-2030) & (Kg)
- Figure 17. Global Thallium Average Price (USD/Kg) & (2019-2030)
- Figure 18. Global Thallium Key Manufacturers, Manufacturing Sites & Headquarters
- Figure 19. Global Thallium Manufacturers, Date of Enter into This Industry
- Figure 20. Global Top 5 and 10 Thallium Players Market Share by Production Value in 2023
- Figure 21. Manufacturers Type (Tier 1, Tier 2, and Tier 3): 2019 VS 2023
- Figure 22. Global Thallium Production Comparison by Region: 2019 VS 2023 VS 2030 (Kg)
- Figure 23. Global Thallium Production Market Share by Region: 2019 VS 2023 VS 2030
- Figure 24. Global Thallium Production Value Comparison by Region: 2019 VS 2023 VS 2030 (US\$ Million)
- Figure 25. Global Thallium Production Value Market Share by Region: 2019 VS 2023 VS 2030
- Figure 26. North America Thallium Production Value (US\$ Million) Growth Rate (2019-2030)
- Figure 27. Europe Thallium Production Value (US\$ Million) Growth Rate (2019-2030)
- Figure 28. China Thallium Production Value (US\$ Million) Growth Rate (2019-2030)
- Figure 29. Japan Thallium Production Value (US\$ Million) Growth Rate (2019-2030)
- Figure 30. Global Thallium Consumption Comparison by Region: 2019 VS 2023 VS

2030 (Kg)

Figure 31. Global Thallium Consumption Market Share by Region: 2019 VS 2023 VS 2030

Figure 32. North America Thallium Consumption and Growth Rate (2019-2030) & (Kg)

Figure 33. North America Thallium Consumption Market Share by Country (2019-2030)

Figure 34. United States Thallium Consumption and Growth Rate (2019-2030) & (Kg)

Figure 35. Canada Thallium Consumption and Growth Rate (2019-2030) & (Kg)

Figure 36. Europe Thallium Consumption and Growth Rate (2019-2030) & (Kg)

Figure 37. Europe Thallium Consumption Market Share by Country (2019-2030)

Figure 38. Germany Thallium Consumption and Growth Rate (2019-2030) & (Kg)

Figure 39. France Thallium Consumption and Growth Rate (2019-2030) & (Kg)

Figure 40. U.K. Thallium Consumption and Growth Rate (2019-2030) & (Kg)

Figure 41. Italy Thallium Consumption and Growth Rate (2019-2030) & (Kg)

Figure 42. Netherlands Thallium Consumption and Growth Rate (2019-2030) & (Kg)

Figure 43. Asia Pacific Thallium Consumption and Growth Rate (2019-2030) & (Kg)

Figure 44. Asia Pacific Thallium Consumption Market Share by Country (2019-2030)

Figure 45. China Thallium Consumption and Growth Rate (2019-2030) & (Kg)

Figure 46. Japan Thallium Consumption and Growth Rate (2019-2030) & (Kg)

Figure 47. South Korea Thallium Consumption and Growth Rate (2019-2030) & (Kg)

Figure 48. China Taiwan Thallium Consumption and Growth Rate (2019-2030) & (Kg)

Figure 49. Southeast Asia Thallium Consumption and Growth Rate (2019-2030) & (Kg)

Figure 50. India Thallium Consumption and Growth Rate (2019-2030) & (Kg)

Figure 51. Australia Thallium Consumption and Growth Rate (2019-2030) & (Kg)

Figure 52. Latin America, Middle East & Africa Thallium Consumption and Growth Rate (2019-2030) & (Kg)

Figure 53. Latin America, Middle East & Africa Thallium Consumption Market Share by Country (2019-2030)

Figure 54. Mexico Thallium Consumption and Growth Rate (2019-2030) & (Kg)

Figure 55. Brazil Thallium Consumption and Growth Rate (2019-2030) & (Kg)

Figure 56. Turkey Thallium Consumption and Growth Rate (2019-2030) & (Kg)

Figure 57. GCC Countries Thallium Consumption and Growth Rate (2019-2030) & (Kg)

Figure 58. Global Thallium Production Market Share by Type (2019-2030)

Figure 59. Global Thallium Production Value Market Share by Type (2019-2030)

Figure 60. Global Thallium Price (USD/Kg) by Type (2019-2030)

Figure 61. Global Thallium Production Market Share by Application (2019-2030)

Figure 62. Global Thallium Production Value Market Share by Application (2019-2030)

Figure 63. Global Thallium Price (USD/Kg) by Application (2019-2030)

Figure 64. Thallium Value Chain

Figure 65. Thallium Production Mode & Process

Figure 66. Direct Comparison with Distribution Share

Figure 67. Distributors Profiles

Figure 68. Thallium Industry Opportunities and Challenges

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