

Global Thallium Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Thallium market size was valued at USD 5 million in 2023 and is forecast to a readjusted size of USD 6 million by 2030 with a CAGR of 2.2% during review period.

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⁺) 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).

Thallium (CAS 7440-28-0) industry has much fragmented, manufacturers are mostly in

the Kazakhstan and China. Among them, China Production value accounted for less than 14% of the total value of global Thallium (CAS 7440-28-0). Kazzinc is the world leading manufacturer in global Thallium (CAS 7440-28-0) market with the market share of 20%.

The Global Info Research report includes an overview of the development of the Thallium industry chain, the market status of Optics (Thallium Granular, Thallium Rod), Electronics (Thallium Granular, Thallium Rod), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Thallium.

Regionally, the report analyzes the Thallium markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Thallium market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Thallium market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Thallium industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K MT), revenue generated, and market share of different by Type (e.g., Thallium Granular, Thallium Rod).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Thallium market.

Regional Analysis: The report involves examining the Thallium market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Thallium market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Thallium:

Company Analysis: Report covers individual Thallium manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Thallium. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Optics, Electronics).

Technology Analysis: Report covers specific technologies relevant to Thallium. It assesses the current state, advancements, and potential future developments in Thallium areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Thallium market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Thallium market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Thallium Granular

Thallium Rod

Others

Market segment by Application

Optics

Electronics

High-Temperature Superconductivity

Others

Major players covered

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

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 Thallium product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Thallium, with price, sales, revenue and global market share of Thallium from 2019 to 2024.

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

Chapter 4, the Thallium breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Thallium market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Thallium.

Chapter 14 and 15, to describe Thallium sales channel, distributors, customers, research findings and conclusion.

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