

# Global Thallium Market Outlook to 2027

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## Abstracts

Thallium (Tl) is a soft, malleable, rare, bluish-white, toxic metallic element that resembles tin in physical properties but discolors when exposed to air, which occurs sparsely in many common ores. According to BlueQuark Research & Consulting, the global Thallium market is expected to witness a significant growth rate during the forecasted period. Factors like the increasing use of Thallium in the Electronic Industry, as it is used in photoelectric cells owing to its electrical conductivity property changes when exposed to infrared light, are expected to drive the global market. Further, in Optics, Thallium(I) bromide and Thallium(I) iodide are used as infrared optical materials. They have transmission at significantly longer wavelengths and are projected to drive the global market. Furthermore, the increasing usage of Thallium in Semiconductors, as Thallium is high-temperature superconducting material for applications such as magnetic resonance imaging, magnetic propulsion, storage of magnetic energy, electric power generation, and transmission, is expected to drive market growth. However, Thallium poisoning hurts the nervous system and may cause diarrhea, vomiting, temporary hair loss, and impediments to the lungs, heart, liver, and kidneys. It is readily absorbed through the skin, respiration, and the digestive tract are expected to hinder the global market growth.

Thallium is used to manufacture photoelectric cells, photoresistors, bolometers, selenium rectifiers, scintillation generators, and metal halide lamps. It is used in fiber optics and semiconductors. It is also used in the pesticides such as rat poison and ant killer and medicines for ringworm, other skin infections and to reduce the night sweating of tuberculosis patients and in the thallium stress tests. Thallium alloy is used in thermometers, low-temperature switches, and magnesium seawater batteries.

The Electronic Industry is the most vital consumer of Thallium and is projected to drive the Global Market. Thallium Selenide is used in the device Bolometer for infrared detection, making the Global Market for Thallium is bound to rise. The trace amount of

Thallium is present in the Selenium rectifiers, and it helps to dope selenium which helps to improve their performance. According to U.S. Geological Survey, in 2020, Global production of Thallium was estimated to be less than 8,000 kg. Imports of Thallium unwrought metal and powder were 57 kg, and exports were higher in 2020 compared to 2019. In a scintillation generator, sodium iodide crystals are doped with a small amount of Thallium to improve their efficiency, and Thallium iodide is used as an additive in metal-halide lamps used for underwater lighting, helps to allow optimization of the lamp temperature and color, the demand for the industry shoots, thus driving the Global Thallium Industry. Therefore the mentioned use of Thallium in the Electronic Industry is expected to grow and drive the overall market in the future.

The Asia-Pacific region is expected to be the leader in the production and consumption of Thallium, with most of the consumption in countries like China and India. Due to the rapid industrialization, there is an increase in Electronic Industry, and sodium iodide crystals are doped with Thallium in gamma radiation detection devices as an activator, thus driving the market demand. The increasing demand for glasses such as lenses, prisms, and windows has resulted in increasing commercial glass production, Thallium(I) Oxide is used to manufacture glasses that have higher refractive indices, which is driving the need for Thallium in the Global Market. Thallium-barium-calcium-copper oxide superconductors have transition temperature used in filters for wireless communications is expected to drive the demand for Thallium in the market. Due to the increasing population, there is a rise in the medical industry for a Thallium stress test, which measures the heart's ability to respond to external stress in a controlled clinical environment, which is expected to drive the demand for Thallium in the global market. Mercury-thallium alloy is used in thermometers and low-temperature switches. It is also a constituent in the anode plates of magnesium seawater batteries, which is expected to drive the demand for Thallium in the market. The mentioned factors have made the Asia-Pacific an essential region for growth in the Thallium market.

Some of the market's key players are Kazzinc Holdings LLP, ESPI Metals, Strem Chemicals, Inc., Sigma Aldrich Chemicals Company, Alfa Aesar Fine Chemicals & Metals, among others.

In August 2020, according to the American College Of Cardiology, Cardiovascular disease was the leading cause of mortality and morbidity in the modern era of medicine. Single-photon emission computed tomography (SPECT) and positron emission tomography (PET) is widely used to assess myocardial viability, in which thallium is used to detect myocardial cell membrane integrity.

Global Thallium Market report provides deep insight into the Industrial market's current and future state across various regions. The study comprehensively analyses the Thallium market by segmenting based on the By Compounds (Thallium(I) Oxide, Thallium(III) Oxide, Thallous Carbonate, Thallous Sulfide, Others), By Application (Electronic Devices, Fiber Optics, Semiconductor, Glass lenses, Medical, Others), and Geography (Asia-Pacific, North America, Europe, South America, and Middle-East and Africa). The report examines the market drivers and restraints and the impact of Covid-19 on the market growth in detail. The study covers and includes emerging market trends, developments, opportunities, and challenges in the industry. This report also covers extensively researched competitive landscape sections with prominent companies and profiles, including their market shares and projects.

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Chem, Inc.  
pectrum Chemicals Mfg. Corp.  
Chemie Ltd  
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