

# Global Titanium Targets for Semiconductor Market Growth 2024-2030

<https://marketpublishers.com/r/G0620BBCBB64EN.html>

Date: July 2024

Pages: 113

Price: US\$ 3,660.00 (Single User License)

ID: G0620BBCBB64EN

## Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

Titanium target material, titanium element symbol Ti, atomic number 22, density 4.454g/Cm<sup>3</sup>, physical properties: melting point 1668 °C, boiling point 3262 °C, specific heat capacity 0.52 (J/(Kg · K)), evaporation heat 421 (KJ/mol), melting heat 15.45 (KJ/mol), conductivity 0.0234 (10<sup>6</sup>/cm). Due to the high cost and limited application areas of high-purity titanium, it is mainly used as a semiconductor material and as a suction material in ultra-high vacuum devices. High purity titanium has gas absorption properties, especially hydrogen absorption CH<sub>4</sub> and Co<sub>2</sub> gases, therefore, can be widely used in high vacuum and ultra-high vacuum systems. Using high-purity titanium sputtering to produce LSI When using VLSI and ULSI line networks, these integrated components can become particularly lightweight, thin, small in size, and have dense lines. High purity titanium targets can also be used as barrier layer metal materials. The following are two typical microscopic metallographic examination images of titanium sputtering target material, with an average particle size of

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