Tantalum (Ta_2O_5)

Base Year 2025

World Production

2,310 tonnes of contained Ta

-7.6%

Brazil Production

39.3 tonnes of contained Ta_2O_5

+19.5%

National Highlight 2025

Minas Gerais (100%)

Trade Balance

↓ Deficit of USD 5.58 million

Exports

USD 86.3 thousand

-74.7%

Mining Royalties (CFEM)

R$ 6.66 million

+36.9%

% Change 2025 vs 2024



What is Tantalum?

Tantalum (Ta) is a rare metallic element with high resistance to corrosion and high temperatures. It is obtained mainly from minerals such as tantalite and microlite and is very important in the manufacture of electronic components, superalloys, chemical equipment and medical implants.

Occurrence

In nature, tantalum usually occurs associated with niobium in granites and pegmatites, as well as in alluvial deposits formed by the erosion of these rocks. Its main ore mineral is columbite-tantalite (coltan). In Brazil, the Pitinga deposit in Amazonas and the Mibra deposit in Minas Gerais stand out, in addition to occurrences in the Borborema Pegmatite Province and in the Upper and Middle Rio Negro region.

Main Applications

Tantalum is used in capacitors for electronic equipment, corrosion-resistant components, medical implants and superalloys.



Tantalum is a rare metal of great importance to the electronics industry, used mainly in capacitors, as well as in corrosion-resistant components, medical implants and superalloys. In Brazil, its production is associated with pegmatites and columbite-tantalite deposits.

1. World Supply

In 2025, world production of contained Ta totaled approximately 2,310 tonnes, a decrease of 7.6% compared to 2,500 tonnes in 2024. Brazil produced 39.3 tonnes of contained Ta_2O_5, equivalent to approximately 1.7% of the world total.



Table – Main tantalum producing countries - 2025

Country	Production (t)	Share (%)
Brazil*	**39.3**	**1.7**
DR Congo	1,300	56.3
Rwanda	400	17.3
Nigeria	390	16.9
China	80	3.5
Other countries	106.7	4.6
Total	**2,310**	**100.0**

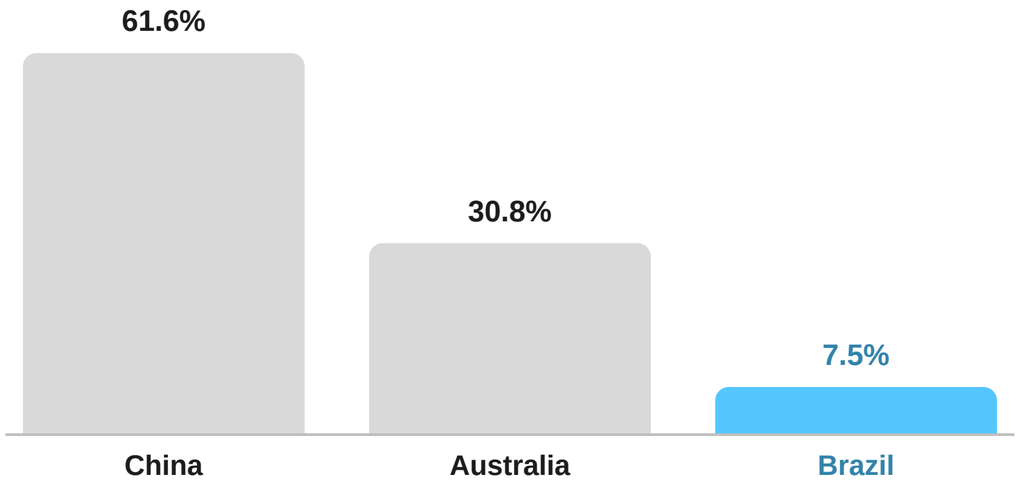
*Brazilian production expressed as contained Ta_2O_5.

Source: ANM; USGS-Mineral Commodity Summaries 2026. Brazil's production corrected relative to USGS data.

2. Reserves

In 2025, world tantalum reserves amount to ~389,375 t of contained Ta, distributed as follows: China (240,000 t; ~61.6%), Australia (120,000 t; ~30.8%) and Brazil (29,375 t of contained Ta_2O_5; ~7.5%).

Percentage Distribution of the Main World Tantalum Reserves – 2025



Brazilian tantalum reserves total 29,375 t of contained Ta_2O_5, behind only China and Australia.

In Brazil, tantalum reserves are mainly associated with:

- Granites and pegmatites, where tantalum usually occurs associated with niobium;
- Alluvial deposits formed by the erosion of these rocks;
- The Pitinga (AM) and Mibra (MG) deposits;
- Occurrences in the Borborema Pegmatite Province and in the Upper and Middle Rio Negro region.

Sources: USGS - Mineral Commodity Summaries 2026; ANM (Brazilian reserves).

3. Domestic Production

Domestic tantalum production in 2025 was 39.3 t of contained Ta_2O_5, an increase of 19.5% compared to 2024. Minas Gerais accounted for 100% of the total, notably the municipality of São Tiago/MG.

Over the last three years, domestic production of contained Ta_2O_5 behaved as shown in the table below:



Year	2023	2024	2025
Ta_2O_5 (t)	74.8	32.9	39.3

Source: ANM

4. Foreign Trade

In 2025, tantalum foreign trade recorded a deficit of USD FOB 5.58 million.



Mineral Sector Exports

Total: USD FOB 86.3 thousand
Variation: -74.7%

Main destinations:
Bolivia (49.7%)
Belgium (27.9%)
Hong Kong (9.6%)

Mineral Sector Imports

Total: USD FOB 5.66 million
Variation: -22.0%

Main origins:
China (26.5%)
El Salvador (14.2%)
South Korea (11.2%)

Source: Open Data/Ministry of Development, Industry, Trade and Services (MDIC).

- Data include the Mineral Extractive Industry (IEM) and the Mineral Transformation Industry (ITM)

***USD FOB/t** = The seller fulfills its obligations and responsibilities when the goods, cleared for export, are delivered, stowed on board the vessel at the port of shipment, both indicated by the buyer, on the date or within the agreed period.

Foreign trade: main products of the mineral extractive industry (IEM) in 2025

Main Exported Products

	There were no exports of tantalum IEM products in 2025
USD FOB	—
EXP Share (%)	—

Main Imported Products

	There were no imports of tantalum IEM products in 2025
USD FOB	—
IMP Share (%)	—

Source: Open Data/Ministry of Development, Industry, Trade and Services (MDIC)

Foreign trade: main products of the mineral transformation industry (ITM) in 2025

Main Exported Products

	NCM 85322119 - Other fixed electrical tantalum capacitors (SMD)	NCM 81033000 - Tantalum waste and scrap
USD FOB	46,727	25,548
EXP Share (%)	54.1	29.6

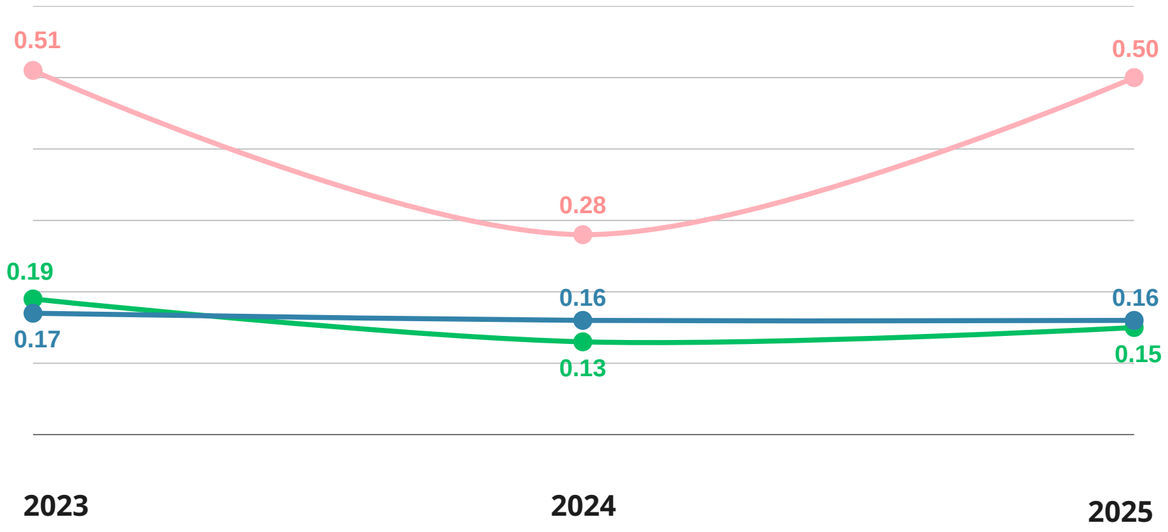
Main Imported Products

	NCM 85322111 - Fixed electrical tantalum capacitor (SMD), voltage ≤ 125 V	NCM 85322190 - Other fixed electrolytic tantalum capacitors
USD FOB	5,226,027	186,445
IMP Share (%)	92.3	3.3

5. Prices

Tantalum prices on the international market are influenced by contained Ta_2O_5 grades, traceability and other supply and demand factors, including industrial consumption, inventories and economic expectations.

Chart – Average import prices (FOB) - USD/Unit - Last 3 years



- Other fixed electrical capacitors (SMD) - Imports
  NCM: 85322119
- Fixed electrical capacitor (SMD), ≤ 125 V - Imports
  NCM: 85322111
- Other fixed electrolytic capacitors - Imports
  NCM: 85322190

Source: Open Data/Ministry of Development, Industry, Trade and Services (MDIC)
*FOB = The seller fulfills its obligations and responsibilities when the goods, cleared for export, are delivered, stowed on board the vessel at the port of shipment, both indicated by the buyer, on the date or within the agreed period.

6. Financial Compensation for the Exploitation of Mineral Resources (CFEM)

In 2025, CFEM, Brazil's mining royalty, collected on the extraction of tantalum ore totaled R$ 6,660,765.88, an increase of 36.9% compared to 2024 (R$ 4,867,096.37). The main holders were Mineração Taboca S.A. (86.4%), AMG Brasil S.A. (13.3%) and Mineração José Marcelino de Oliveira & Cia Ltda (0.03%).

State	CFEM 2025 (R$)
AM	5,752,585.24
MG	884,773.19
PB	16,077.37
Other states	7,330.08

Source: ANM.

7. Investments and Mining Rights

Tantalum investments and mining rights are reported jointly with columbite-tantalite, which prevents their breakdown by substance.

Investments in Mining

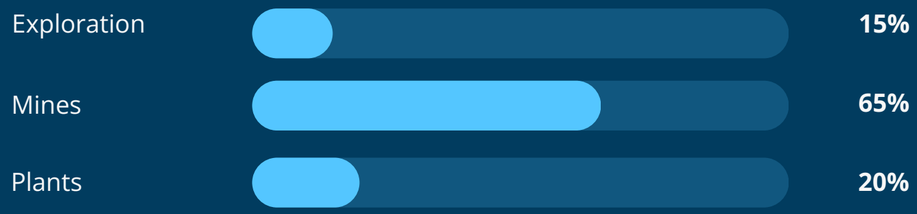
In 2025, mining investments associated with tantalum totaled R$ 31.9 million, according to the Mineral Exploration Investment Statement (DIPEM) and the Annual Mining Reports (RAL).

Main States

MG

PA

Investment Breakdown



Mining Rights 2025

Main States

- PB (22 permits)
- RR (12 permits)
- RN (11 permits)

Mineral Exploration

- 94 new exploration permits published in 2025 (163 in 2024; -42.3%)

Final Exploration Reports

- 11 final exploration reports approved in 2025

Mining Applications

- 8 new mining applications in 2025
- 4 mining concessions granted
- 5 PLGs granted

Source: ANM.

8. Relevant Factors

In April 2025, the Chinese company CNMC completed the acquisition of Mineração Taboca for approximately US$ 340 million. The company controls Pitinga, an important Brazilian tin, niobium and tantalum deposit.

The expansion of artificial intelligence, cloud computing and 5G networks continues to strongly drive tantalum consumption for the manufacture of semiconductors and capacitors.