



AMG

MINERAÇÃO

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**T**hrough two operating units, AMG Mining concentrates on values directed at security, transparency, innovation, mutual respect and focus on results. That was how in 2012 the company was able to reach its 100-year anniversary. Today, the group is featured nationally and internationally as a certified and sustainable source of tantalum extraction, high-quality aluminum alloys, tantalum oxide and niobium, and other products.

The products developed at AMG in Brazil make up a line that caters to various industries, such as aluminum, automotive, electronics, aeronautics, aerospace, special tools, ceramics, glass and energy. It employs nearly 500 people directly and close to 300 indirectly.



## Production

In Volta Grande mine, in Minas Gerais state, the main product is tantalum concentrate, which is a rare metal considered to be critical by the UN. Through mining and processing of pegmatite, they also produce cassiterite ore, which upon casting produces tin ingots, as well as potassium feldspar, obtained from waste.

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*– Fabiano Costa, president of AMG Mining*



**Tantalum**

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AMG Brazil produces tantalum and niobium oxides by chemical process, a metallurgical transformation unit, aluminum special alloys, and operates a hydroelectric power plant.

The ability to reinvent itself following the market demand for more competitiveness, innovation and quality is an important trait that distinguishes AMG. The production of feldspar makes a big difference as well. The technological development used in feldspar processing plant allows to significantly reduce contaminants contained in the product providing very light ceramic with low porosity.

“Adding aggregated value to their products, AMG successfully entered the domestic market of ceramics and glass providing feldspar produced in Nazareno mine, ensuring profitability and sustainability of mine,” he said.



*Plant II - Tantalum processing*



## Quality

AMG Mining has stood out on the world stage as a provider of high quality, steadily produced tantalum concentrate, with a responsible attitude concerning the environment and the communities around them.

“Both the mine and the plant in São João del Rei are currently considered a benchmark in operational efficiency, innovation and environmental responsibility by the international market,” said Costa.

Almost 100% of production goes to international markets, especially in Europe, USA and China. “AMG is a leading producer of special alloys of aluminum and altabas. We were able to establish different types of products, including alloys used in the production of wheels, windows, electrical cables, aluminum cans, plates, coaxial cables, tubes, rivets, zippers and engineering products with specific mechanical properties,” said Costa.

## Sustainable development

In its operational strategy, the company has created several tools within a model called the Sustainable AMG, where improvement projects are developed and enable the continued use of tools like 5S, Six Sigma, TPM and Continuous Improvement.

Within the AMG sustainable program, each manager is responsible for part of the project and has well-defined goals. The company also



*Planta I, Tantalum processing*



*TiBAI,  
Grain refiner*



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created the technical services division, which is responsible for the overall quality management and process improvement.

“We encourage our managers to practice safety, and care for occupational health and environmental issues. Each manager personally performs field inspections and reports deviations. We are currently implementing behavioral audits and we believe that the results will be very positive. There has been 600 days with no reported accidents,” said the president.

## Future

Focusing on growth, AMG Mining’s plans aim at critical new markets, as well at increasing production capacity. A few years ago Processing Plant II got an upgrade, which elevated production by 20%. “We are preparing to serve new markets and strengthen the position where we already operate, with



investment strategies of about USD \$35 million over the next five years,” said the president.

When it comes to the country’s economic and social volatility, Costa is conclusive.

“Differentiation and innovation must be part of our day-to-day activities. The commitments to treat the environment sustainably and develop surrounding communities where we operate are things that need to be part of the routine. Dealing with all of these variables in a systemic way, with a skilled and motivated staff, is the key to overcome hurdles and maintain the company’s success journey. “

## Company Information

### NAME

AMG Mineração and  
AMG Brasil

### INDUSTRY

Chemical, Metallurgy,  
Mining

### HEADQUARTERS

Minas Gerais - Brazil

### ESTABLISHED

1912 - Company  
1945 - Mining

### EMPLOYEES

500



## **AMG MINERAÇÃO**

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