

# CARBOGRIND ceramic media improves quality, increases efficiency and reduces costs for gold mining operation

CARBOGRIND high performance ceramic media significantly enhances the purity of milled gold, improves grinding efficiency, lowers mechanical equipment wear and reduces media replacement costs.

## Southeast United States

### The challenge

An international mining company acquired operating facilities at a historic gold mining site in the southeast United States, and saw the need to improve the quality and efficiency of the milling process.

### The solution

The company performed a direct comparison of its original 3-mm ceramic grinding media to CARBOGRIND® 300-030 3-mm high performance ceramic media. CARBOGRIND media is engineered to provide superior strength, hardness and uniform shape. The sintering process yields a Mohs hardness approaching that of a diamond, resulting in high resistance to particle attrition and compressive breakdown. These characteristics ensure the efficient grinding performance critical to milling precious metals.

By optimizing grinding efficiency, CARBOGRIND media offers the additional benefits of reduced input energy requirements while also minimizing wear on the mechanical parts of milling equipment, reducing maintenance requirements and costs.

### The results

In direct comparison, CARBOGRIND ceramic grinding media produced purer, higher quality milled gold than the competing product.

Furthermore, the durability of CARBOGRIND ceramic media ensures that it retains its effectiveness through a greater number of grinding cycles, reducing process costs as well as the associated costs to replace, transport and dispose of grinding media.

### Project Details

**Client:** Global mining company

**Location:** Southeast United States

**Type:** Milling gold

**Media:** CARBOGRIND 300-030 (3 mm)

### Benefits achieved

- Purer, higher quality milled product
- Reduced process costs
- Reduced media consumption resulting in lower disposal and replacement costs

Talk to CARBO to find out how we can help you enhance your production.

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