

AVG – 1.2MTPA Beneficiation Plant

Client: AVG
Location: Brasil
Commencement: 2003

Capability Groups: Mineral Processing
Completion: 2003

Services Provided

- Metallurgical testing
- Flowsheet development
- Basic and detailed plant design
- Process equipment supply
- Plant commissioning
- Operator training
- Process guarantee

Highlights

- Laboratory scale testing
- Fully integrated processing
- Achieved rate of production capacity and concentrate grade

Smart Engineering

A two-stage spiral plant for beneficiation of fine Iron Ore – 1.0mm to 0.075mm at a feed rate of 205 t/h, the project scope required Mineral Technologies to conduct onsite testwork and evaluate the capability of spirals for the beneficiation of fine Iron Ore.

On acceptance of the testwork results Mineral Technologies was selected as the preferred supplier of separation equipment and awarded an EPCM contract.

The final contract scope of supply included:

- Beneficiation process flowsheet design;
- Process engineering with process guarantee;
- Mechanical, structural and civil design for the process plant including tailings and concentrating stacking;
- Preparation of equipment specifications for tender purposes;
- Procurement;
- Erection using third party contractors;
- Plant commissioning to prove plant production and performance; and
- Operator training.

Successful commissioning of a two-stage spiral circuit totalling 96 twin-start spiral separators was completed in September 2004 with both concentrate grade and production capacity achieved.

