SCOPE OF ACCREDITATION TO ISO 17034:2016

CENTRO DE TECHNOLOGIA MINERAL – CETEM/MCTIC
Brazilian Federal Government Research Institute
Av. Pedro Calmon, 900 Ilha da Cidade Universitaria
Rio de Janeiro, BRAZIL 21941-908
Maria Alice Cabral de Goes   Phone: 55 21 3865 7310

REFERENCE MATERIALS PRODUCER

Valid To: September 30, 2024   Certificate Number: 4015.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this Reference Material Producer for the production of certified reference materials of the following categories:

Certified Reference Material	Concentration Ranges and Uncertainty[1]	Measurement Technique(s)
Chemical Composition Inorganic Reference Materials: Multi Element Ore, Rocks and Minerals, Products and Wastes (Solids/Powders) Produced From Mined Materials in the Production of Metals (Copper, Silver, Aluminum, etc), and Agrominerals	Elemental and Oxides composition as naturally occurring Concentration Range: (0.0001 to 100 000) mg/kg (0.0001 to 100) % m/m Uncertainty: (0.1 to 20) %	Measurement by a network of qualified laboratories using a variety of methods of demonstrable accuracy

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[1] Uncertainties for the certified values are available on Reference Material Producer´s issued certificates
   for certified reference materials.

Accredited Reference Material Producer

A2LA has accredited

CENTRO DE TECNOLOGIA MINERAL – CETEM-MCTIC

Rio de Janeiro, BRAZIL

This accreditation covers the specific materials listed on the agreed upon Scope of Accreditation.
This producer meets the requirements of ISO 17034:2016 *General Requirements for the
Competence of Reference Material Producers.* This accreditation demonstrates technical competence
for a defined scope and the operation of a quality management system.

Presented this 5th day of December 2022.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4015.01
Valid to September 30, 2024

For the reference materials to which this accreditation applies, please refer to the reference material producer's Scope of Accreditation.