

Nickel Laterite Ores

DIGESTION OF NICKEL LATERITE ORES USING COLDBLOCK™ DIGESTION TECHNOLOGY

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Introduction

This application note will focus on the digestion of Nickel Laterite Ores using ColdBlock™ Digestion CB12L Technology.

Method

Samples of CRM (Certified Reference Material) OREAS-184 and OREAS-187 were digested using the following method:

- 0.25g of sample was weighed and placed into a ColdBlock™ Digestion vessel.
- 8mL H₂SO₄ and 5.5ml H₃PO₄ was added.
- Sample was digested at 85% power for 20 minutes.
- Chiller temperature was set to -5°C.
- Sample was allowed to cool.
- Sample was normalized to 50mL using 1% HNO₃.

Instrument

ColdBlock™ Digestion CB12L Technology.

General

This procedure is specific for the sample digested and may need modification for different samples to achieve the desired result.