

ASEAN Metal Element Spectrometer



From standard **1U** to **8U** sizes to
fully customized **Non-standard** enclosures.

AI Overview

The ASEAN Special Metals Spectrometer refers to analytical instruments used in the ASEAN region for detecting and quantifying metals, including heavy metals, in various materials using techniques like atomic absorption, X-ray fluorescence, and optical emission spectrometry.

Overview

In ASEAN, metal spectrometry is widely applied for regulatory compliance, quality control, and industrial analysis. For example, the ASEAN Harmonized Cosmetic Regulatory Scheme (AHCRC) sets limits for heavy metals such as arsenic (As) and lead (Pb) in cosmetics, which are analyzed using graphite furnace atomic absorption spectrometry (GFAAS) with instruments like the Shimadzu AA-7000 AAS and GFA-7000 atomizer . These spectrometers allow precise detection of trace metals at parts-per-million (ppm) levels.

Types of Spectrometers

- Graphite Furnace Atomic Absorption Spectrometer (GFAAS)
- Used for trace metal analysis in cosmetics, pharmaceuticals, and environmental samples.
- Provides high sensitivity for elements like As, Pb, Cd, and Hg.
- Requires sample digestion, often via microwave-assisted methods, before analysis .
- X-ray Fluorescence (XRF) Spectrometer
- Non-destructive technique for rapid elemental analysis of metals in solid or powdered samples.

Article Content

Optical Emission Spectroscopy | SPECTRO Analytical

Optical emission spectroscopy using arc and spark excitation (Arc Spark OES) is the preferred method for trace metal analysis to

Asian Metal

Asian Metal has powerful and complete international trade access platform system, as well as independent and personalized trade

ASEAN's Electronic Metal Tester Market Report 2026

The ASEAN market for electronic machines and appliances for testing metals stands at a critical inflection point,

Atomic absorption spectrometry – A multi element technique

In the past, many types of researches have been performed to allow multi-element determinations using atomic

Atomic Absorption Spectroscopy to Determine Chemical Composition

This article explains how atomic absorption spectroscopy can be used to determine the chemical composition of

SPECTROTEST

The SPECTROTEST mobile arc spark spectrometer is ideal for many applications in the metal producing,

testermeter-AA320N AASMetal Elements Analysis Device AAS

Lable: AA320N Atomic Absorption Spectrophotometer for Metal Analysis Previous : testermeter-GT16 16wells Portable Mini Gradient

Elemental Analysis Solutions & Analytical Instruments | SPECTRO

SPECTRO is a global leading supplier of advanced analytical instruments like ICP, Arc Spark OES, and XRF spectrometers for

04-AD-0236-EN Analysis of Heavy Metals in Cosmetics by Graphite

To determine the amount of heavy metals in ASEAN Cosmetic Methods , graphite furnace atomic absorption spectrometer

Heavy metal pollution and transboundary issues in ASEAN countries ...

There is a growing trend towards heavy metal pollution in the Association of Southeast Asian Nations (ASEAN)

SPECTROMAXx Metal Analyzer | SPECTRO Analytical Instruments

The SPECTROMAXx ARC/SPARK OES analyzer delivers fast, accurate elemental analysis in metal producing and fabricating

Spektris Metalab

PT Spektris Metalab is specializing in elemental analysis, make our sales record in elemental analysis as one of the biggest in

ASEAN Trade Repository

In line with the ASEAN Trade in Goods Agreement (ATIGA), the ASEAN Trade Repository (ATR) is intended to provide transparency

Elemental Analysis : Shimadzu (Asia Pacific)

Shimadzu has been a world leading manufacturer of high-quality elemental analysis spectrometers that meet the application

Optical Emission Spectroscopy | PMI Metal Testing | Hitachi High-Tech

Discover why metal manufacturers across Asia are upgrading to advanced OES analyzers for precise, flexible, and

Mobile Metal Analyzer

For onsite metal analysis, SPECTRO offers a complete range of mobile metal analyzer products, from handheld XRF to portable Arc

Metal analysis spectrometer

Find your metal analysis spectrometer easily amongst the 40 products from the leading brands (Thermo Fisher Scientific,

Analysis of Heavy Metals in Cosmetics by Graphite Furnace Atomic ...

To determine the amount of heavy metals in ASEAN Cosmetic Methods, graphite furnace atomic absorption spectrometer (GFAAS)

ASEAN Minerals Cooperation

ASEAN is one of the largest markets in the world for the supply of mineral raw materials and ASEAN Member States are among the

Products

This handheld XRF analyzer is a high-performance instrument designed for rapid, non-destructive testing of metals, minerals, ores,

Handheld XRF Mineral Analyzer | ASEAN Machine

This handheld XRF analyzer is a high-performance instrument designed for rapid, non-destructive testing of metals, minerals, ores,

Elemental Analysis of Metals | Elemental Spectroscopy

Learn more about the elemental analysis of metals. Elemental spectroscopy uses an optical emissions spectrometer to determine the

Contact Us

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