

# Metallic Material Composition Spectrometer



## Overview

Spectral analysis is used for the precise determination of the chemical composition of metallic materials. With Optical Emission Spectrometry (OES) and X-ray Fluorescence Analysis (XRF), even the smallest alloying elements can be reliably detected. When handhelds aren't enough, the amazing new SPECTROPORT portable metal analyzer applies more advanced OES technology — in a unit as easy to use as a handheld analyzer. SPECTROPORT delivers many advantages of SPECTRO's portable OES flagship, SPECTROTEST, in a smaller, lighter package. The PG Spark, with its small footprint, is truly a Table Top. SISCO portable spectrometer is equipped with a high-definition TFT industrial touch screen, imported high-performance X-ray emitting tube and ultra-high resolution detector, combined with digital multi-channel processing technology, it can be connected to a mobile phone for wireless data. Atomic Absorption Spectroscopy (AAS): Measures how much light atoms in the sample absorb. Material mixups can lead to considerable damages and must be ruled out unconditionally, especially in sensitive, security-relevant areas. Frequent applications for chemical.



## Article Content

May 12, 2026

### Chemical Composition Analysis

Chemical composition analysis is conducted for a wide range of purposes from material identification and characterization to quality control monitoring. The analysis provides valuable information about

Feb 27, 2026

### Metal Analysis & Material Testing – Laboratory for

Spark spectral analysis is the most common method for determining the composition of metals precisely. With our modern spark spectrometer, we can determine the

May 28, 2026

### XRF Metal Analyzer: Quick results | Alloytester

Metal analysis is any analysis that is used to verify a metal or alloys elemental composition. Some metal analysis methods are destructive

Feb 07, 2026

### Spectro Metaldatabase\_int dd

Easy Search within thousands of materials and get the required grade displayed in a few seconds! Identification of unknown materials by composition with the Grade Identifier Identification of unknown

Oct 26, 2025

### 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 precise elemental analysis of materials.

Oct 26, 2025

### Comprehensive Guide to Metal Composition Analysis

Process Optimization: Assists in refining manufacturing processes to enhance material properties and reduce costs. Key Techniques in Metal

Sep 20, 2025

### Spectral analysis for the chemical composition of

We offer spectral analysis to determine the chemical composition of metallic materials, which can either be identified or verified.

Dec 30, 2025

### What Does a Spectrometer Do in Metal Fabrication?

In metal fabrication, this is critical. Every part we produce must match exact material standards. A slight change in composition can lead to product failure, safety risks, or rejection from

Oct 30, 2025

### Direct Reading Spectrometer for On-Site Alloy

On-site alloy control using a direct reading spectrometer enhances precision, ensures traceability, and boosts material compliance in custom parts manufacturing.

May 31, 2026

### Spectral Analysis Service | Applus+ Laboratories

Spectral analysis is pivotal in determining the chemical composition of metallic materials, enabling precise identification and verification. At Applus+

Nov 05, 2025

### Spectral Analysis - Determining the Chemical Composition

Spectral analysis is used for the precise determination of the chemical composition of metallic materials. With Optical Emission Spectrometry (OES) and X-ray

Aug 10, 2025

### Metal analysis spectrometer

Find your metal analysis spectrometer easily amongst the 39 products from the leading brands (Thermo Fisher, Bruker, LECO, ...) on DirectIndustry, the industry

Dec 17, 2025

### Online Spectrometer | Metal Spectrometer LIS-01 | XRF

A metal spectrometer lis-01 & online spectrometer is used for alloy identification, metal analysis with carbon detection without argon gas.

Jan 24, 2026

### Chemical Analysis of Metals

Chemical analysis of metals validates that the candidate material is appropriate for the intended end use. ICP analysis, OES analysis, gravimetric analysis, SEM

Dec 15, 2025

### Metal Analysis & Material Testing - Laboratory for

In our modern metal analysis laboratory we have comprehensive equipment that enables us to carry out precise analyses of a wide variety of metallic samples.

Jun 17, 2026

### Mobile Metal Analyzer

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

Aug 29, 2025

### Comprehensive Guide to Metal Composition Analysis

Analyzing metal composition is crucial for quality control in metalworking, as it ensures materials meet the necessary chemical

Dec 09, 2025

### Spectrometer Gun for Material Analysis in Metal Industry

Importance of metal composition analysis The spectrometer gun is a powerful tool used in various industries for material analysis and quality control. Its primary

Jun 22, 2026

### Spectrometers for Steel Testing in Steel Industry Plants

Enhance steel testing with OES Spectrometer. It ensures precise analysis of carbon, nitrogen, oxygen & fine wire, foil, thin analysis in steel plants,

Feb 05, 2026

### Portable Spectrometer for Metal Analysis

In scientific research and education, they can be used to study the microstructure

Apr 28, 2026

### PG SPARK OES CCD METAL ANALYSER FOR

This high quality, affordable and compact OES Spark Spectrometer is perfect for

Jan 05, 2026

### Portable Metal Analyzer

The SPECTROPORT portable arc spark spectrometer is ideal for many applications in the metal producing, processing, and recycling industries. Find out more.

Aug 26, 2025

### SPECTROMAXx Metal Analyzer | SPECTRO Analytical

The SPECTROMAXx ARC/SPARK OES analyzer delivers fast, accurate elemental analysis in metal producing and fabricating plants, and iron and non-ferrous

Apr 19, 2026

Powder Metallurgy Analysis | SPECTRO

The SPECTRO XEPOS and SPECTROSCOUT X-ray fluorescence spectrometers are outstandingly suited for the analysis of powders and sintered metals and thus,

Sep 26, 2025

Using an Innovative Mass Spectrometer and Non

Using an Innovative Mass Spectrometer and Non-Matrix-Matched Reference Materials to Quantify Composition of Metal Disks and Powders

Oct 16, 2025

Spectrometers - Visual Encyclopedia of Chemical

Spectrometers use light wavelengths to investigate the chemical composition of a sample. Atomic spectrometers use an analytical method by which one or several

## Contact Us

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