

Elemental Composition Spectrometer for Metal Casting Materials



Overview

The direct reading spectrometer offers a rapid, on-site solution for monitoring elemental composition during manufacturing. Detecting emission lines from excited atoms within seconds enables real-time alloy control before solidification or post-processing. The tenth-generation SPECTROMAXx features completely new factory calibrations, with extended calibration ranges and element selections; optimized source excitation parameters; and improved limits of detection (LODs). A comprehensive range of devices and adaptors to enhance the performance of your spectrometer. The wavelength and intensity of electromagnetic radiation is. The NEW PG SPARK OES CCD ANALYSER from PG INSTRUMENTS LIMITED is designed to maximise productivity with reliable metals analysis Iron and steels, Non-ferrous metals and alloys. Precisely defined, certified. Precisions Casting of Tennessee's metal chemical analysis services offer accurate analysis of everyday casting production, as well as value-added customer service and quality assurance.



Article Content

Feb 06, 2026

Precision Castings Spectro Analysis

Our two optical emission spectrometers can measure the elemental composition of any low alloy, high alloy, stainless steel, tool steel, or precipitation hardening steel.

May 26, 2026

Spectrochemical Analysis | Metal Casting Resources

Optical emission spectroscopy (OES) is a common form of spectroscopy used to determine elemental components in solid metal samples. It

Oct 28, 2025

Elemental Analysis of Materials

Elemental analysis of materials is the process of identifying and quantifying the chemical elements in a sample to determine its composition. It measures the type

Apr 22, 2026

Spectrometers for Steel Testing in Steel Industry Plants

Steel plants frequently require mobile OES spectrometers for on-site testing, including: PMI (Positive Material Identification). Sorting and testing large

Oct 14, 2025

Chemical Analysis & Material Identification | SPECTRO

ICP-OES and XRF spectrometers from SPECTRO are as versatile as the industrial infrastructure and the analytical applications of the entire chemical industry.

Dec 21, 2025

Spectrochemical Analysis

9/7/21, 12:15 AM Spectrochemical Analysis | Metal Casting Resources QUOTE CASTING SERVICES Spectrometers for Elemental Testing and Analysis

Jun 12, 2026

Instrumentation for precise metal analysis

Our high-performance metal analyzers use either elemental analysis or optical emission spectrometry for easy, precise metal analysis.

Oct 09, 2025

Elemental Composition Analysis

When you need elemental composition analysis, you need a reliable, highly accurate analytical tool that is easy to use. Bruker XRF elemental composition analyzers

Jul 21, 2025

Metal Analysis by Optical Emission Spectroscopy

Metal Analysis by Optical Emission Spectroscopy Optical emission spectroscopic techniques originated in experiments performed in the mid 1800s,

Jul 09, 2025

Elemental Analysis | Spectrometer Manufacturers & Suppliers

Our Mobile OES offer a rugged and reliable solution for on-site metal analysis. Our Rotating Disc Electrode Optical Emissions Spectrometers (RDE OES) determine elemental composition. A

Dec 21, 2025

Material Testing & Chemical Analysis | CFS Foundry

Chemical composition is the basic property of a metal cast part, which will directly affect the mechanical properties of products. So during investment casting

Jul 15, 2025

Optical emission spectrometer (OES) SPAS-05 for metal analysis

SPAS-05 is an optimal choice for customers, who need rapidity, high technical features, safety and high accuracy of the results of identification of chemical composition of metal production under minimum

Aug 04, 2025

Determination of elemental composition of metals using ambient

Abstract Conventional inorganic mass spectrometric (MS) analysis of metals can require time-consuming and tedious sample preparation. We thus report the novel and direct

Feb 08, 2026

What Does a Spectrometer Do in Metal Fabrication?

Spectrometers are essential in metal fabrication for analyzing chemical composition, improving casting quality, and reducing defects. This article explains how they support real-time

Jun 18, 2026

Comprehensive Guide to Metal Composition Analysis

In the intricate world of metallurgy, understanding the precise composition of metal materials is paramount. Whether you're an engineer

Apr 09, 2026

Direct Reading Spectrometer for On-Site Alloy

The direct reading spectrometer offers a rapid, on-site solution for monitoring elemental composition during manufacturing. Detecting emission lines from

Jun 04, 2026

Besser Casting Services: Material Analysis

Besser Casting uses SPECTRO, a worldwide top 3 German brand spectrometer to measure the chemical composition of investment casting products. Spectrometer is an inspection

Nov 30, 2025

Spectral Testing: Analyzing Die Casting Material Composition

If you require die-casting manufacturers to perform spectral testing on raw materials to determine precise chemical composition, please contact Sunrise. We possess advanced spectrometers and

Apr 28, 2026

Elemental Analysis Solutions | ICP-OES, ICP-MS, XRF & OES

Elemental analysis determines which elements are present and in what amounts. Learn the difference between qualitative vs quantitative analysis, how ICP-OES/ICP-AES, ICP-MS, XRF, handheld XRF,

Dec 26, 2025

Exploring EDXRF Analysis for Cast Iron Composition

In the field of material analysis, Energy Dispersive X-ray Fluorescence (EDXRF) spectrometry has emerged as a powerful technique for determining the

May 21, 2026

Metal Composition Testing: 8 Proven Methods

X-ray fluorescence (XRF) spectrometry is a powerful, non-destructive analytical technique widely employed for the rapid determination of elemental

Nov 17, 2025

Optical Emission Spectroscopy - OES Analysis | Element

Element's OES analysis provides rapid, quantitative breakdown of your metals with percentage-level accuracy, helping you confirm material specifications, maintain

Contact Us

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