Silicon-Iron Elemental Composition Spectrometer

Overview

SVDV-ICP-OES is a technique used for the detection of elements at trace (parts of million) levels in numerous sample types, which provides a highly reliable technique due to good stability, limited spectral interferences and low matrix effects. The recent advances in EDS performance with the silicon drift detector (SDD) enable. Our robust family of Thermo Scientific ARL XRF spectrometers provides fast, repeatable elemental analysis measurements with little to no sample preparation. Advanced models — such as the SPECTRO xSORT handheld XRF spectrometer from SPECTRO Analytical Instruments — produce fast, accurate results on the spot, for sample identification, gra e sorting, and metals analysis. Energy Dispersive Spectroscopy, also knows as EDS or EDX, and sometimes even as EDAX is a non-destrutive way to get the elemental composition of an element. The system is very affordable with high reliable and quality. It delivers high sensitivity, a wide dynamic range and strong tolerance for complex matrices, making it ideal for pharmaceutical and food.

Article Content

Jul 09, 2025

Superheated pig iron elemental analysis by LIBS

To ensure the material meets specific mechanical and physical properties required for further processing, it is essential to monitor the chemical composition of pig iron from a blast furnace.

Apr 03, 2026

Performing elemental microanalysis with high accuracy and high ...

The recent advances in EDS performance with the silicon drift detector (SDD) enable accuracy and precision equivalent to that of the high spectral resolution wavelength-dispersive spectrometer ...

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This high quality, affordable and compact OES Spark Spectrometer is perfect for the routine analysis of elemental content in materials such as Iron and Steels, aluminium, copper, zinc, lead alloys to name ...

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Nine Elements That Challenge Handheld XRF Analyzers — But ...

However, XRF technology faces significant limitations for certain elements. These constraints make it difficult or impossible t ur, phosphorus, aluminum, silicon, magnesium, lithium, beryllium, and boron. ...

Feb 11, 2026

Elemental Analysis Techniques | Elemental Composition ...

We accurately determine the elemental composition of your samples, providing you with a comprehensive understanding of their characteristics.

Dec 09, 2025

Rapid Quantitative Analysis of Iron and Silicon Concentrations in Iron ...

As a technique capable of rapid, nondestructive, and multi-elemental analysis, portable X-ray fluorescence (pXRF) has applications to mineral exploration, environmental evaluation, and...

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The SPECTRO xSORT XHH04 furnishes high-throughput, highly reliable elemental testing and spectrochemical analysis of countless metals ...

Jun 16, 2026

SPECTRO xSORT Handheld XRF Analyzer for Metal Analysis

The SPECTRO xSORT XHH04 furnishes high-throughput, highly reliable elemental testing and spectrochemical analysis of countless metals and its alloys in widely varying conditions.

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X-Ray Fluorescence Analyzers

We offer a wide range of X-ray fluorescence (XRF) instruments designed to meet the needs of every industry. Our robust family of Thermo Scientific ARL XRF spectrometers provides fast, repeatable ...

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Utilizing EDXRF to Analyze the Composition of Cast Iron

This article effectively demonstrates the ARL QUANT''X EDXRF Spectrometer ''s capability to quantify various elements in cast iron, including C, Si, P, S, Cr, Mn, and Ni.

Aug 23, 2025

Metal Power MOSS | Metallurgical Online Spectrometry ...

Metal Power has heralded a true technological breakthrough with the launch of MOSS - the most economical spectrometer ever made.

May 22, 2026

SEM & EDS Services

Elemental and compound information can be viewed in several formats including elemental spectrums to identify the elements present, quantitative atomic and weight percent calculations, and x-ray ...

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