

Metal Spectrometer Data



Overview

The Soft X-Ray Emission Spectroscopy (SXES) Database is a free on-line reference tool for researchers in the fields of x-ray analysis and spectroscopy. The database contains spectra from synthetic compounds, metals and minerals. Millions of properties records and thousands of material designations from all major organizations and industrial associations Search within thousands of materials and get the required grade displayed in a few seconds! Identification of unknown materials by SPECTRO Metal Database – your all-in-one. Online Spectral Database: Quick access to millions of NMR, IR, Raman, UV-Vis, and Mass Spectra. Learn more about our subscription plans here. Copyright © 2026 by John Wiley & Sons, Inc. This database provides access and search capability for NIST critically evaluated data on atomic energy levels, wavelengths, and transition probabilities that are reasonably up-to-date. The Data Center is located in. Spectral data from Aluminium, Stainless Steel, Mild Steel, Copper, and Wood materials were collected using a spectrometer equipped with advanced on-chip filtering technology.



Article Content

SPECTROMAXx Metal Analyzer | SPECTRO Analytical Instruments

The SPECTROMAXx arc/spark OES metal analyzer independently monitors all operating parameters. It dynamically determines the measurement time required based on the given sample properties and

CSIRO Spectroscopy Databases

The Soft X-Ray Emission Spectroscopy (SXES) Database is a free on-line reference tool for researchers in the fields of x-ray analysis and spectroscopy. The

Advancements in machine learning, deep learning, and data fusion ...

Advancements in machine learning, deep learning, and data fusion techniques for XRF spectrometry in heavy metal detection: a critical review

Alkali D Line Data

Alkali D Line Data The references here include useful reference data for some of the alkali atoms, including physical parameters and optical parameters for the D spectral lines, which are

SPECTROMAXx Metallanalysator | SPECTRO Analytical

Darüber hinaus überzeugt das SPECTROMAXx durch eine intuitive Bedienung: Funktionstasten, User Management und die Entkopplung der Bedienung von der Metal Analyzer

The ARL iSpark Optical Emission Spectrometry is a metal analyzer designed for the characterization of alloys for quality control during metals

Atomic Spectra Database | NIST

This database provides access and search capability for NIST critically evaluated data on atomic energy levels, wavelengths, and transition probabilities that are reasonably up-to-date.

Interactive Periodic Table

The interactive Periodic Table of Elements provides insight into how microanalysis techniques can be used to solve your materials characterization problems. Hover over any item in the periodic table, for

Metal Power

Technical insights on spectrometry, metal analysis, and industrial quality control. Download our product brochures, software, whitepapers and other industry

Metal Analyzers | Spark OES | OE750 & OE720

Comprehensive metals database included, for fast and easy grade identification.
Optional SPC and charge correction software for optimal process control

Secondary Ion Mass Spectral Imaging of Metals and

Secondary Ion Mass Spectrometry (SIMS) is an outstanding technique for Mass Spectral Imaging (MSI) due to its notable advantages,

Metals Analysis by Atomic Spectroscopy

This section will provide an introduction to atomic spectroscopy. The basic concepts of flame atomic absorption spectroscopy (FLAA), graphite furnace

Niton™ XL2 XRF Analyzer

Niton™ XL2 XRF Analyzer. Instantly identify materials for your analytical requirement, from scrap metal recycling to mining exploration and lead screening

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,

What Is Mass Spectrometry? Principles, Methods

How a Mass Spectrometer Works, Types of Instrumentation and Interpreting Mass Spectral Data Mass spectrometry is a key technique in

Technology Focus: X-Ray Photoelectron Spectroscopy (XPS)

X-ray photoelectron spectroscopy (XPS) is a technique for analyzing the surface chemistry of a material. XPS can measure the elemental composition, empirical formula, chemical state and

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.

SpectraBase

Online Spectral Database: Quick access to millions of NMR, IR, Raman, UV-Vis, and Mass Spectra. Search a compound by name, InChI, InChIKey, CAS Registry Number, or Draw a Structure

A Spectral Dataset of different materials for metal classification

Spectral data from Aluminium, Stainless Steel, Mild Steel, Copper, and Wood materials were collected using a spectrometer equipped with advanced on-chip filtering technology.

A Model Transfer Method among Spectrometers Based

Thus, based on the necessity of spectral calibration model transfer between the traditional large spectrometer and the micro-spectrometer, a novel

Synthesis, optical imaging, and absorption spectroscopy data ...

Data Descriptor Open access Published: 27 March 2019 Synthesis, optical imaging, and absorption spectroscopy data for 179072 metal oxides Helge S. Stein, Edwin Soedarmadji, Paul F.

msiFlow: automated workflows for reproducible and

The generated multimodal imaging data were processed and analysed by msiFlow. Fig. 1: Workflow for correlative multimodal mass

Metal Testing & Analysis

For precious metals analysis, such as jewelry or dental alloys, also non-destructive SPECTRO XRF spectrometers are used for analysis. SPECTRO XRF

Prediction of Heavy Metal Concentrations in

Xia F, Fan T, Chen Y, Ding D, Wei J, Jiang D, Deng S. Prediction of Heavy Metal Concentrations in Contaminated Sites from Portable X-ray

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

Metal Power

Metal Power Analytical provides world-class spectrometers, metal analysis instruments, and OES technology for steel plants, foundries, and industries

Metal analysis spectrometer

Find your metal analysis spectrometer easily amongst the 40 products from the leading brands (Thermo Fisher, LECO, Malvern Panalytical, ...) on

Metal Characterization Techniques

Metal characterization techniques utilizing electron microscopy technology. Learn about SEM EDX, metal inclusion analysis, nanoparticle analysis, and more.

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For more information, pricing, or custom solutions, please contact us:

Website: <https://sphplantsales.co.za>

Email: info@sphplantsales.co.za

Phone: +27 64 827 3915

Address: Unit 9, Highveld Technopark, 43 Atlas Road, Johannesburg, 2196,
South Africa

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