

Price of Cast Iron Spectrometer

Article Overview

Cast iron spectrometers typically range from \$10,000 to over \$100,000 depending on technology, brand, and features.

Price Overview

The cost of a cast iron spectrometer varies widely based on the type of spectrometer and its intended application:

- o Optical Emission Spectroscopy (OES): These are commonly used in foundries and metal production for precise elemental analysis. High-end OES units, such as the SPECTROMAXx, can cost \$50,000 to \$100,000 or more due to advanced calibration, fast measurement, and low detection limits .
- o X-Ray Fluorescence (XRF) Spectrometers: Portable or benchtop XRF devices are generally less expensive, ranging from \$10,000 to \$40,000, and are ideal for scrap sorting, incoming material verification, and field inspections .
- o Infrared (IR) Spectrometers: Used for measuring interstitial elements like carbon and sulfur, these instruments are often integrated with OES systems or sold as standalone units, typically costing \$15,000 to \$50,000 depending on precision and automation .

Factors Affecting Price

- o Technology and Accuracy: More precise instruments with lower limits of detection and faster analysis times are more expensive.
- o Brand and Model: Established brands like SPECTRO, Thermo Fisher, and LECO generally command higher prices due to reliability, service, and calibration support .
- o New vs. Pre-Owned: Pre-owned or refurbished spectrometers can reduce costs by 30-50%, but may require recalibration or maintenance .
- o Additional Features: Automation, software for workflow management, remote monitoring, and multi-element analysis increase the price .
- o Supplier and Location: Prices may vary depending on the supplier, shipping, import duties, and local support availability .

Purchasing Options

- o Wholesale marketplaces like Alibaba offer a range of new and pre-owned spectrometers, allowing buyers to filter by price and model .
- o Direct from manufacturers such as SPECTRO or WUXI JINYIBO, which provide technical support, calibration, and warranty services . In summary, a basic portable XRF spectrometer may start around \$10,000, while a high-end OES system for industrial foundries can exceed \$100,000, with the final price influenced by



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technology, brand, and additional features.

See current scrap price for Cast Iron as of July 15, 2026. Check 30-day price chart for Cast Iron and learn when to

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

He said this approach precisely determines carbon in cast iron, even on suboptimal samples. SPECTRO ANALYTICAL

SPECTRO ANALYSIS AND METAL DETECTION Cast Steel Products utilizes the latest in technology for

This rugged 245x250x90mm portable spectrometer delivers fast, precise elemental identification in the field. The 50kV X-ray tube and

Its fast, accurate, cost-effective measurements add essential certainty in critical supply chains worldwide. Like its predecessors, this

Speed, precision, stability, sensitivity and accuracy are important criteria applied by the cast iron manufacturer in

SPECTROPORT delivers many advantages of SPECTRO's portable OES flagship, SPECTROTEST, in a smaller, lighter package. It

Online shopping for Spectrometers - Spectrometry from a great selection at Industrial & Scientific Store.

Accurate casting iron spectrometers for alloy analysis. Shop our range of mobile and desktop models for reliable metal detection.

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

Die Cast Machinery, LLC Buys, Sells, Appraises and Supplies used metal analysis spectrometers for trace metal analysis.

Get TSW Cast Iron Optical Spectrometer, Size: 6 Inch at best price in Ambala, Haryana by Tilak Scientific

Instrumentation The ARL QUANT"X EDXRF Spectrometer is equipped with a 50-W, 50-kV rhodium (Rh)



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anode X-ray tube, a filter

Until the 1980's, the combustion method was the standard technique for determining total carbon levels in iron making. However

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