

Cast iron standard for spectrometers



Overview

The ISO 15350 standard provides a robust framework for the spectrometric analysis of steels and cast irons. This service is crucial for ensuring that materials meet specific chemical composition requirements as defined by international standards such as ISO, ASTM, and EN. 1 This test method covers the analysis of cast iron by spark atomic emission. In this standard the condensed spark method is specified for determination of alloying elements in cast iron with the help of direct reading optical emission spectrometer having automatic print out typewriter/strip chart recorder. “[”hemethods specified are intended to be broad guidelines only, and. The last approved version of this historical standard is ref International 1 0 Barr Harbor Drive, P ween the flat, ground surface of the disk specimen and a conically shaped electrode. Note 1: The ranges of the elements listed have been established through cooperative testing of.



Article Content

Jun 01, 2026

ASTM E1999 Standard Test Method for Analysis of Cast Iron by Spark ...

ASTM E1999 provides a standardized technique for the chemical analysis of cast iron using spark atomic emission spectrometry. The method is important for identifying alloying and

Jan 03, 2026

Standard Practice for Sampling Steel and Iron for Determination of ...

1.1 This practice covers the sampling of all grades of steel, both cast and wrought, and all types (grades) of cast irons and blast furnace iron for chemical and spectrochemical determination of

Mar 19, 2026

E1999 Standard Test Method for Analysis of Cast Iron by Spark

The chemical composition of cast iron alloys shall be determined accurately in order to insure the desired metallurgical properties. This procedure is suitable for manufacturing control and

May 19, 2026

Utilizing EDXRF to Analyze the Composition of Cast Iron

In this article, Thermo Fisher discuss how to use EDXRF to analyze the composition of cast iron, as carbon content is crucial for understanding and adjusting the properties of the alloy.

May 08, 2026

Optical Emission Spectrometry

Analysis of iron and steel with ARL iSpark 8860 Optical Emission Spectrometer Since 1934, our company has set the standard of quality for spectrochemical analysis of metals. Throughout these

Jan 31, 2026

How to Find Carbon Equivalent Formula for Cast Iron: A Complete Guide

How to Find Carbon Equivalent Formula for Cast Iron: A Complete Guide □□ **TL;DR: Quick Guide to Carbon Equivalent for Cast Iron** The **Carbon Equivalent (CE)** formula helps predict the

Jan 05, 2026

Cast Iron Analysis | Optical Emission Spectrometry

Approximately 20,000 foundries worldwide produce cast iron. The exact chemical composition of the alloy being manufactured needs to be checked throughout the

Jul 05, 2025

Routine spectrographic analysis of cast iron

For cast irons rich in nickel or chromium, etc., working graphs prepared from alloy iron standards are of course used. It is a matter of some importance to choose spectrographic standards as nearly as

Aug 16, 2025

Spectrometer Copper Die For Sample Preparation

Spectrometer Copper Die as per Indian Standard ISO 14284:1996 for coin sample preparation for spectrometer analysis for cast iron and ductile iron samples only.

Aug 21, 2025

Bureau of Analysed Samples Reference Standards

Setting-up Samples of steel and cast iron are also offered. A range of non-certified reference materials (RMs) are available for chemical and spectroscopic analysis

May 26, 2026

ISO 15350 Spectrometric Analysis of Steels and Cast Irons

ISO 15350 provides a standardized method for spectrometric analysis of steels and cast irons, ensuring accurate determination of elemental composition to meet specific chemical requirements.

Jul 27, 2025

Analysis of cast iron

Cast irons are a family of ferrous metals with a wide range of properties that are produced by being cast into shape instead of being formed. Cast irons contain carbon and silicon,

Dec 11, 2025

E1999 Standard Test Method for Analysis of Cast Iron by Spark

Scope 1.1 This test method covers the analysis of cast iron by spark atomic emission spectrometry for the following elements in the ranges shown (Note 1): ... Note 1: The ranges of the elements listed

Nov 04, 2025

Faster analysis of cast iron with Zetium and SumXcore technology

Cast irons contain 2 to 4 wt% carbon and 1 to 3 wt% silicon, with a wide range of elements used to control specific properties that make them suitable for use in engineering

Apr 25, 2026

Standard Test Method for Cast Iron Analysis with ASTM E1999

Developed by the American Test and Materials Association (ASTM), the ASTM E1999 standard ensures that the chemical composition of cast iron alloys provides the desired metallurgical properties.

Sep 29, 2025

Standard Test Method for Cast Iron Analysis with ASTM E1999 Spark ...

Developed by the American Testing and Materials Authority (ASTM), the ASTM E1999 standard provides a test procedure for accurately determining the chemical composition of cast iron alloys to

Apr 22, 2026

Standard Test Method for Analysis of Cast Iron by ...

Standard Test Method for Analysis of Cast Iron Using Optical Emission Spectrometry
This test method covers the optical emission spectrometric analysis of cast iron by use of the point-to

Jul 04, 2025

Carbon analysis in cast iron

The SDDUltra detector contributes largely to the improved light-element analysis capabilities, making it possible to quantify carbon, something not normally considered possible with bench-top EDXRF

Dec 26, 2025

E1999 Standard Test Method for Analysis of Cast Iron Using Optical ...

1.1 This test method covers the optical emission spectrometric analysis of cast iron by use of the point-to-plane technique for the following elements in the concentration ranges shown

Oct 22, 2025

Analysis of Iron and Steel with ARL easySpark Optical Emission

The ARL easySpark is able to determine all the elements necessary in your current and future applications, in all possible qualities of iron and steel: white or grey cast iron, alloyed cast iron, low

Sep 03, 2025

IS 15338 (2003): Spectrometric Analysis of Cast Iron by Direct

In this standard the condensed spark method is specified for determination of alloying elements in cast iron with the help of direct reading optical emission spectrometer having automatic print out

Dec 18, 2025

Standard Test Methods for Chemical Analysis of Cast Iron—All Types

1.1 These test methods cover the chemical analysis of pig iron, gray cast iron (including alloy and austenitic), white cast iron, malleable cast iron, and ductile (nodular) iron having chemical

Sep 09, 2025

ASTM E1999-23

It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory

May 23, 2026

Standard Test Method for Analysis of Cast Iron by Spark ...

Standard Test Method for Analysis of Cast Iron by Spark Atomic Emission Spectrometry This international standard was developed in accordance with internationally recognized principles

Feb 07, 2026

(PDF) 60Co in Cast Steel Matrix: a European

Two series of activity standards of 60Co in cast steel matrix, developed for the calibration of gamma-ray spectrometry systems in the metallurgical sector,

Contact Us

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

Website: <https://www.elagage-lorrain.fr>

Email: sales@elagage-lorrain.fr

Phone: +33 6 47 82 19 35

Address: 15 Rue de la République, 69002 Lyon, France

This document is for informational purposes only. Specifications subject to change without notice.

