

Can a metal spectrometer display 316L



Overview

High-grade steel type AISI 316 and AISI 316L can be analyzed with the optical emission spectrometer ferro. The SPECTROTEST is a mobile arc spark spectrometer ideal for many applications in the metal producing, processing, and recycling industries. This mobile metal analyzer flaunts its superior performance especially when exact metal analysis is required, when materials are difficult to identify or when. Bruker Elemental's Q4 MOBILE provides the petrochemical and metals industries with a compact metal analyzer, capable of analyzing the critical carbon content in used steel. Q4 MOBILE. This 316 L certified reference material is an austenitic stainless steel alloy widely used as a standard for calibrating and verifying your spectrometer (XRF, ICP-OES, Spark-OES, etc. This material is precisely manufactured and certified to have traceable measurements and specified impurity. Yesterday, I received an question from one of our valued clients about why our 316L stainless steel pipelines, when tested with a handheld PMI detector, showed up as 316 stainless steel?

Handheld spectral analyzers have inherent limitations, primarily in their inability to detect non-metallic. Steel of alloy 316 is a popular example, used for constructing petrochemical plants. The carbon content is what separates these two materials, with "L" used as an indicator for. [Display screen] Color, high-resolution 3. 5-inch TFT industrial-grade touch screen, large icon graphical interface, clearly visible in any light conditions; [Appearance design] integrated fuselage design, strong, waterproof, dust-proof and antifreeze, effective anti-vibration, suitable for field.



Article Content

Apr 13, 2026

SPECTROTEST

A probe with an integrated UV optic is available for special measuring applications; it can also be utilized with arc excitation. This arc spark spectrometer is even able to identify low alloy steel with the carbon ...

May 24, 2026

Normal spectral emissivity measurement study of high-temperature ...

One effective approach to better understanding the performance characteristics of high-temperature alloys is to study their thermal oxidation behavior, and to accurately determine their ...

Jan 24, 2026

XPS Analysis of Stainless Steel Surfaces

The Thermo Scientific™ K-Alpha™ X-ray Photoelectron Spectrometer (XPS) System was used to analyze the surface and layer composition of stainless steel surfaces to identify the successfulness of ...

Dec 07, 2025

316L Stainless Steel Certified Reference Materials

This 316 L certified reference material is an austenitic stainless steel alloy widely used as a standard for calibrating and verifying your spectrometer (XRF, ICP-OES, Spark-OES, etc.).

Jan 13, 2026

Identification of high-grade steel type AISI 316/AISI 316L

This Data Bulletin shows analysis results of a high-grade steel analyzed with the optical emission spectrometer ferro.lyte®.

Aug 30, 2025

Why Does Handheld PMI Detector Only Show 316 ...

Handheld spectral analyzers have inherent limitations, primarily in their inability to detect non-metallic elements. This technology focuses on identifying ...

Mar 26, 2026

Why Does Handheld PMI Detector Only Show 316 Instead of 316L

Handheld spectral analyzers have inherent limitations, primarily in their inability to detect non-metallic elements. This technology focuses on identifying the metallic components of a...

Apr 16, 2026

Determining Carbon Content to Identify High-Grade Steels

High-grade steel type AISI 316 and AISI 316L can be analyzed with the optical emission spectrometer ferro.lyte®, and by determining the carbon content.

Jan 12, 2026

i-CHEQ Portable Alloy Analysis

The characteristic X-ray fluorescence energy and wavelength of different elements are different, so the energy or wavelength can be measured, and qualitative analysis of the elements can be conducted.

Jul 13, 2026

Portable XRF Metal Analyzer

Meet your metal analysis needs anywhere with the JITA9201 Handheld XRF Analyzer. This rugged 245x250x90mm portable spectrometer delivers fast, precise elemental identification in the field. The ...

Nov 15, 2025

Mobile spark spectrometer Q4 MOBILE analyzes 316 / 316L alloys

With an optional four-wheeled trolley, the spark spectrometer and accessories easily roll to the place where analysis is needed. Controlled by an intelligent energy management system, Q4 MOBILE can ...

Oct 02, 2025

316L Stainless Steel Certified Reference Materials

This 316 L certified reference material is an austenitic stainless steel alloy widely ...

Contact Us

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