

# **Component Spectrometer for Casting**





## Overview

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Spectrometers are used to evaluate metals to determine the chemical composition with high accuracy. This style uses a spark applied through high voltage on the surface, vaporizing particles. Within our 2019 investment plan to upgrade equipment and improve capacity and services, Saeta has acquired a new spectrometer for metal analysis which will ensure that each injected batch contains exactly the same components, thus ensuring stability in the characteristics and specifications of each. As a NADCAP-accredited foundry supplying Siemens Energy and Rolls-Royce, we've leveraged OBLF spectrometers to achieve 99. Materials Analysis focuses on the physical and chemical properties of the material to be used and is the name given to the process of analysing and monitoring the properties of the products to be produced including the materials which will go into producing the actual product.



## Component Spectrometer for Casting

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# Spectro Analysis and Metal Detection , Cast Steel Products

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SPECTRO ANALYSIS AND METAL DETECTION Cast Steel Products utilizes the latest in technology for analyzing metallurgy of parts using non-destructive

## Quality Control and Inspection Methods in Investment Casting

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Investment casting is a manufacturing process that allows for the production of complex metal components with high dimensional accuracy and superior surface finish. To ensure that these



## **Analyses for Secondary Producers and Foundries**

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SPECTRO provides a range of metal analyzers, offering tailored solutions for secondary producers and foundries to ensure accurate and efficient metal analysis.

### **Spectrometers**

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Spectrometers are used to evaluate metals to determine the chemical composition with high accuracy. One of the more common spectrometers used in the metal

## **Material Testing & Chemical Analysis , CFS Foundry**

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Chemical composition is the basic property of a metal cast part, which will directly affect the mechanical properties of products. So during investment casting



## **Investment Casting Quality Control , Spectrometer**

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This Spectromaxx spectrometer is an effective tool designed for precise and rigorous quality control testing services on each and every precision investment cast

## **Optical Emission Spectroscopy , SPECTRO Analytical**

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Optical emission spectroscopy using arc and spark excitation (Arc Spark OES) is the preferred method for trace metal analysis to determine the chemical composition of metallic samples. This process is

## **Materials Analysis | Kalkanci Die Casting and Moulding**

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We provide the Materials Analysis process for our Aluminium Die Casting Mould production using devices from brands such as Spectromax, Zwick Nikon, Affri and

## **OBLF Spectrometer in Alloy Composition Control: Real-World Cases**

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As a NADCAP-accredited foundry supplying Siemens Energy and Rolls-Royce, we've leveraged OBLF spectrometers to achieve 99.98% chemistry compliance across 500+ alloy grades.

## **Spectrometer for Casting**

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Find spectrometer for casting at competitive prices. Precision metal analysis tools for aluminum, steel, and more. Shop our collection of high-quality spectrometers.



## **Spectrometry of materials , Saeta Die Casting**

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Within our 2019 investment plan to upgrade equipment and improve capacity and services, Saeta has acquired a new spectrometer for metal analysis which will ensure that each

## **Selecting a Spectrometer for Your Operation.**

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The increased demand by customers for certified or, at least, quantified casting compositions and quality has meant an increase in metals analysis duties for many foundries. For

## **Positive Material Identification Testing Services (PMI)**

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Ensure Alloy Compliance with Precision & Confidence - Backed by Eurofins Spectro



Eurofins Spectro offers advanced Positive Material Identification (PMI) services

## **PG SPARK OES CCD METAL ANALYSER FOR**

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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,

## **How Can You Guarantee Die Casting Quality from Core**

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A robust inspection process for die castings relies on a toolkit of specialized equipment. This includes a CMM for dimensional accuracy, an X-ray



## **OBLF Spectrometer in Alloy Composition Control: Real-World Cases**

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Introduction In precision casting,  $\pm 0.03\%$  elemental variation can mean the difference between a high-performance aerospace component and costly scrap. As a NADCAP-accredited foundry supplying

### **Precision Castings Spectro Analysis**

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Our two optical emission spectrometers can measure the elemental composition of any low alloy, high alloy, stainless steel, tool steel, or precipitation hardening steel.

### **Spectrometry of materials , Saeta Die Casting**

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In die-casting aluminium parts, we must ensure that the selected alloy is maintained throughout the process and so we need tools to determine the components we are using at all times.



## **Direct Reading Spectrometer for Casting Detection, Alloy Smelting**

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Used to analyze metal elements (carbon, sulfur, silicon, manganese, phosphorus, copper, nickel, chromium, molybdenum, rare earth, magnesium, titanium, zinc, lead, aluminum, iron and other

## **Chemical Composition of the Castings Determined by Spark Spectrometer**

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Download scientific diagram , Chemical Composition of the Castings Determined by Spark Spectrometer; for a More Accurate Measurement the Carbon Content Was Determined Via



## Used Spectro Spectrometers and Inspection Equipment

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Spectro spectrometers are commonly used in die casting and foundry Quality Control applications. Die Cast Machinery, LLC is a dealer that specializes in second hand

## Case Study: Quality assurance for chill casting with the optical

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The mixture is tested with the spectrometer in the trial phases. Krause Präzisions-Kokillenguss offers 12 alloys, including aluminium alloys and non-ferrous metal alloys including

## What Does a Spectrometer Do in Metal Fabrication?

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Spectrometers help metal fabricators check composition, reduce waste, and meet



quality standards in casting, forging, and machining.

## **Spectral Testing: Analyzing Die Casting Material Composition**

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If you require die-casting manufacturers to perform spectral testing on raw materials to determine precise chemical composition, please contact Sunrise. We possess advanced spectrometers and

## **EDXRF analysis of cast iron composition with ARL QUANT'X Spectrometer**

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Instrumentation The ARL QUANT'X EDXRF Spectrometer is equipped with a 50-W, 50-kV rhodium (Rh) anode X-ray tube, a filter wheel with 9 selectable filter positions, and a state-of-the-art silicon drift



## Cast Iron Analysis , Optical Emission Spectrometry

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

## OPTIMAL CAST IRON MELT CONTROL WITH OES

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In cast iron production, this has traditionally been a costly undertaking requiring multiple processes. However today's OES technology is primed to deliver accurate and reliable one-step quality control

### Contact Us

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For datasheets, pricing, or custom optical networking solutions, please visit:  
<https://www.entrenamientointeligente.es>