

# Spectrometer

A spectrometer is a device for measuring wavelengths of light over a wide range of the electromagnetic spectrum. It is widely used for **spectroscopic** analysis of sample materials. The incident light from the light source can be transmitted, absorbed or reflected through the sample.

## Purpose of the Spectrometer

A **spectroscope** is used to split light into various wavelengths. This specialized scientific device is used in physics, chemistry and biology to determine the purity or composition of different substances.

## IN PLANT SPECTRO MACHINE

Name of the Machine: SPECTRO MAXx



The SPECTRO MAXx stationary metal analyzer is used mainly for material testing in foundries and for incoming and outgoing inspections in the metal industry around the world. It determines all of the elements used in the metal industry, including metal analysis of carbon, phosphorous, sulfur and nitrogen.

The seventh generation of the SPECTRO MAXx arc spark OES metal analyzer comes with drastically reduced operating costs, significantly shorter measuring times and less maintenance requirements – while still offering exceptional precision and stability. And when it comes to productivity, the new SPECTRO MAXx sets the benchmark.

## REFERENCES BAS (Bureau of Analysed Samples Ltd.)

Certified Reference Materials (CRMs) for both chemical and spectroscopic analysis are prepared and issued by the BUREAU OF ANALYSED SAMPLES LTD (BAS).

## INTENDED USE & STABILITY:

ECRM 186-1D is intended for the verification of analytical methods, such as those used by the participating laboratories and Industries, for the calibration of analytical instruments in cases where calibration with primary substances (pure metals or stoichiometric compounds) is not possible and for establishing values for secondary reference materials.

It will remain stable provided that the bottle remains sealed and is stored in a cool, dry atmosphere. When the bottle has been opened the lid should be secured immediately after use. If the contents should become discolored (e.g. oxidized) by atmospheric contamination they should be discarded.

**ADVANTAGES FOR CUSTOMER**

1. The Fulfillment of all quality demands on time.
  2. Customer can interpret the perfect material which they specify.
- Reliable and accurate analysis. Hence customer satisfaction.