

Direct Analysis of Impurities in Solid Metallic (Iron, Aluminum and copper) Base Samples

Instrument: Optical Emission Spectroscopy
Make: Thermo Electron SA.

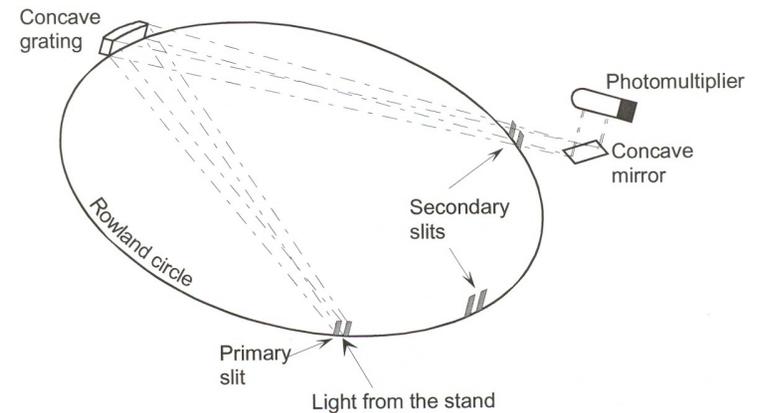
Elements: Line selection in the range of 130nm to 780 nm allowing analysis of Al, B, Bi, C, Cr, Cu, Co, Mg, Mn, Mo, Nb, Ni, P, Pb, S, Si, Sn, Ti, V, W, Zn, Fe

Conc. Range: ppm - percentage

Precision: 5 %

Preferred Matrix: Iron, Aluminum and copper base

Optical emission spectrometers determine analyte concentration via a quantitative measurement of the optical emission from excited atoms. Analyte atoms in metal surface atomized by a spark. These high-temperature atomization process provide sufficient energy to promote the atoms into high energy levels. The atoms decay back to lower levels by emitting light detected by PMT.



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