

Method of determining a chemical composition of a slag portion (5), the method comprising the steps of: - providing the slag portion, the slag portion having a surface (S), - collecting light (L) reflected from the surface using an optical system (10), - obtaining a data set from the collected light, the data set at least defining a matrix containing values representative of an intensity of a part (L M,l) of the collected light, each part being respectively collected from one of a plurality of points (M) at one of a plurality of wavelengths, the matrix being indexed at least by: - a plurality of space coordinates of the plurality of points, and-a plurality of spectral parameters representative of the plurality of wavelengths, - conditioning the matrix in order to obtain a reduced set of values, and-performing a mathematical algorithm using the reduced set of values in order to obtain the chemical composition. Corresponding installation.