

DIN EN 15309:2007-08 (E)

Characterization of waste and soil - Determination of elemental composition by X-ray fluorescence

Contents		Page
Foreword		3
Introduction		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Safety remarks	7
5	Principle	7
6	Apparatus	7
7	Reagents	8
8	Interferences and sources of error	8
9	Sample preparation	9
9.1	General	9
9.2	Drying and determination of dry mass	9
9.3	Preparation of pressed pellet	9
9.4	Preparation of fused beads	10
10	Procedure	10
10.1	Analytical measurement conditions	10
10.2	Calibration	11
10.3	Analysis of the samples	17
11	Quality control	18
11.1	Drift correction procedure	18
11.2	Blank test	18
11.3	Reference materials	18
12	Calculation of the result	18
13	Test report	19
Annex A (informative) Semi-quantitative screening analysis of waste, sludge and soil samples		20
Annex B (informative) Examples for operational steps of the sample preparation for soil and waste samples		23
Annex C (informative) Suggested analytical lines, crystals and operating conditions		29
Annex D (informative) List of reference materials applicable for XRF-analysis		31
Annex E (informative) Validation		32
Bibliography		40