ISO/TS 13605:2012-05 (E)

Solid mineral fuels - Major and minor elements in hard coal ash and coke ash - Wavelength dispersive X-ray fluorescence spectrometric method

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 2

3 Terms and definitions 2

4 Principle 2

5 Reagents 2
5.1 General 2
5.2 Flux and heavy absorber 2

6 Apparatus 2
6.1 General 2
6.2 Crucible 3
6.3 Mould 3
6.4 Crucible tongs 3
6.5 Desiccator 3
6.6 Sample holders 3
6.7 X-ray fluorescence spectrometer 3

7 Sample 4
7.1 Coal and coke ash prepared in the laboratory 4
7.2 Coal and coke ash 4

8 Procedure 4
8.1 Number of determinations 4
8.2 Test portion 4
8.3 Check test 4
8.4 Calibration 4
8.5 Preparation of the fused discs 5
8.6 XRF measurement 6

9 Calculation 7
9.1 General 7
9.2 Correction of instrumental drift 7
9.3 Correction for dead time losses 7
9.4 Matrix corrections 8

10 Reporting results 8

11 Precision 8

12 Test report 9

Annex A (normative) Acceptance of analytical results for laboratory method 10

Annex B (informative) Reagents suitable for the preparation of synthetic calibration standards 12

Annex C (normative) Standard deviation of glass disc preparation 13

Bibliography 15