ISO 22940:2021 (E)

Solid recovered fuels — Determination of elemental composition by X-ray fluorescence

Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

4 Symbols and abbreviated terms

4.1 Symbols
4.2 Abbreviated terms

5 Safety remarks

6 Principle

7 Apparatus

8 Interferences and sources of error

9 Sample preparation

9.1 Preparation principles
9.2 Drying of general analysis sample material
9.3 Preparation of pressed pellet

10 Procedure

10.1 Analytical measurement conditions
10.1.1 Wavelength-dispersive instruments
10.1.1.1 General
10.1.1.2 Intensities and background corrections
10.1.1.3 Counting time
10.1.2 Energy-dispersive instruments
10.1.3 Intensities and background corrections
10.2 Calibration
10.2.1 General
10.2.2 General calibration procedure
10.2.3 Calibration procedure using the pressed pellet method (recommended method)
10.3 Procedures for correcting matrix effects
10.3.1 General
10.3.2 Internal standard correction using Compton (incoherent) scattering method
10.3.3 Fundamental parameter approach
10.3.4 Fundamental or theoretical influence coefficient method
10.3.5 Empirical alpha correction
10.4 Analysis of the samples

11 Quality control

11.1 Drift correction procedure
11.2 Reference materials and quality control samples

12 Calculation of the result

13 Performance characteristics

14 Test report

Annex A (informative) Publicly available solid recovered fuel reference materials

Annex B (informative) Validation

B.1 General
B.2 Key for table titles
B.3 Discussion of results

Page count: 35