ISO 7936:2022-08 (E)

Coal - Determination and presentation of float and sink characteristics - General directions for apparatus and procedures

Contents

Page

Foreword v

Introduction vi

1 Scope 1

2 Normative references 1

3 Terms and symbols 1

4 Sampling 1
4.1 General 1
4.2 Sample mass 2
4.3 Coal preparation plant products 3
4.4 Plant control testing 4
4.5 Comprehensive plant efficiency test 4
4.6 Core samples 4
4.7 Preliminary treatment 4
4.8 Size analysis 5
4.9 Pilot testing 5

5 Separation media 6
5.1 General 6
5.2 Organic solutions 6
5.2.1 General 6
5.2.2 Limitations on accuracy 6
5.3 Inorganic solutions 7
5.3.1 General 7
5.3.2 Formate solutions 7
5.4 Aqueous suspensions 8
5.4.1 General 8
5.4.2 Zirconium dioxide 8

6 Apparatus 10
6.1 General 10
6.2 Coarse coal apparatus 12
6.3 Fine coal apparatus 16

7 Float and sink testing procedures 16
7.1 General 16
7.2 Relative densities of test media 16
7.3 Testing of coarse size fractions 17
7.3.1 General 17
7.3.2 Procedure 18
7.3.3 Air drying 19
7.4 Testing of fine size fractions 19
7.4.1 General 19
7.4.2 Procedure 19

8 Test report 22

Annex A (informative) Drop shatter **24**

Annex B (informative) Wet tumbling **36**

Annex C (informative) Sample masses for float and sink testing **38**

Annex D (normative) Validation of data **43**

Annex E (informative) Interpretation of data **45**

Annex F (informative) Guide to the safe use of organic solutions **49**

Annex G (informative) Calibration of hydrometers **52**

Bibliography **54**