

ISO 13909-4:2016-07 (E)

Hard coal and coke - Mechanical sampling - Part 4: Coal - Preparation of test samples

Contents		Page
Foreword	v	
Introduction	vi	
1 Scope	1	
2 Normative references	1	
3 Terms and definitions	1	
4 Precision of sample preparation	1	
5 Constitution of a sample	2	
5.1 Introduction	2	
5.2 Combination of increments	2	
5.2.1 Time-basis sampling	2	
5.2.2 Mass-basis sampling	2	
5.3 Combination of samples	3	
6 Division	3	
6.1 General	3	
6.2 Mechanical methods	10	
6.2.1 General	10	
6.2.2 Mass of cut	10	
6.2.3 Interval between cuts	10	
6.2.4 Division of individual increments	10	
6.2.5 Division of samples	13	
6.3 Manual methods	14	
6.3.1 Riffle method	14	
6.3.2 Flattened-heap method	15	
6.3.3 Strip-mixing and splitting method	17	
7 Reduction	18	
7.1 General	18	
7.2 Reduction mills	18	
8 Mixing	18	
9 Air-drying	18	
10 Preparation of samples for specific tests	19	
10.1 Types of test samples	19	
10.2 Preparation of samples for determination of total moisture only	19	
10.2.1 General	19	
10.2.2 Storage	21	
10.2.3 Sample reduction	21	
10.2.4 Sample division	22	
10.3 Preparation of samples for general analysis only	22	
10.3.1 General	22	
10.3.2 Air-drying	22	
10.3.3 Reduction and division	22	
10.4 Common samples	23	

10.4.1	General	23
10.4.2	Extraction of moisture sample by mechanical division	24
10.4.3	Extraction of moisture sample by manual method	24
10.5	Preparation of size-analysis sample	25
10.6	Preparation of samples for other tests	26
11	Reserve sample	27
12	Design of equipment for preparation	27
12.1	Dividers	27
12.2	Design of cutters for falling-stream dividers	27
12.2.1	General	27
12.2.2	Cutter velocity	28
12.3	Preparation systems	28
12.3.1	General	28
12.3.2	Design criteria	28
12.3.3	Abnormal operation	29
12.4	Provision for checking for precision	29
12.5	Provision for testing for bias	29
	Bibliography	30