

ISO 13909-3:2016-07 (E)

Hard coal and coke - Mechanical sampling - Part 3: Coal - Sampling from stationary lots

Contents	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Establishing a sampling scheme	1
4.1 General	1
4.2 Design of the sampling scheme	2
4.2.1 Material to be sampled	2
4.2.2 Division of lots	2
4.2.3 Precision of sampling	2
4.2.4 Bias of sampling	3
4.3 Precision of results	3
4.3.1 Precision and total variance	3
4.3.2 Primary increment variance	4
4.3.3 Preparation and testing variance	4
4.3.4 Number of sub-lots and number of increments per sub-lot	4
4.4 Minimum mass of sample	6
4.5 Mass of primary increment	8
4.6 Size analysis	9
5 Methods of sampling from wagons, barges and ships	10
5.1 General	10
5.2 Number of increments and sub-lots	10
5.2.1 General analysis and moisture samples	10
5.2.2 Common sample	10
5.3 Taking the increments	11
5.4 Distribution of increments	11
5.4.1 Wagons	11
5.4.2 Barges	11
5.4.3 Ships	11
5.4.4 Random selection of increments	11
6 Methods of sampling from stockpiles	12
7 Sampling equipment -- mechanical auger	13
8 Handling and storage of samples	15
9 Sample preparation	16
10 Minimization of bias	16
10.1 Causes of bias	16
10.2 Checking for precision and bias	16
11 Verification	17
Bibliography	18