

ISO 13909-3:2025-07 (E)

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

Contents

Page

| | |
|--|-----------|
| Foreword..... | iv |
| 1 Scope..... | 1 |
| 2 Normative references..... | 1 |
| 3 Terms and definitions..... | 1 |
| 4 Establishing a sampling scheme..... | 2 |
| 4.1 General..... | 2 |
| 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..... | 8 |
| 5 Methods of sampling from wagons, barges and ships..... | 9 |
| 5.1 General..... | 9 |
| 5.2 Number of increments and sub-lots..... | 9 |
| 5.2.1 General analysis and moisture samples..... | 9 |
| 5.2.2 Common sample..... | 9 |
| 5.3 Taking the increments..... | 9 |
| 5.4 Distribution of increments..... | 10 |
| 5.4.1 Wagons..... | 10 |
| 5.4.2 Barges..... | 10 |
| 5.4.3 Ships..... | 10 |
| 5.4.4 Random selection of increments..... | 10 |
| 6 Methods of sampling from stockpiles..... | 11 |
| 7 Sampling equipment — mechanical auger..... | 11 |
| 8 Handling and storage of samples..... | 13 |
| 9 Sample preparation..... | 14 |
| 10 Minimization of bias..... | 14 |
| 10.1 Causes of bias..... | 14 |
| 10.2 Checking for precision and bias..... | 14 |
| 11 Verification..... | 15 |
| Bibliography..... | 16 |