

ISO 20904:2006-10 (E)

Hard coal - Sampling of slurries

Contents		Page
Foreword		v
1	Scope	1
2	Normative references	1
3	Definitions	1
4	Principles of sampling slurries	2
4.1	General	2
4.2	Sampling errors	3
4.3	Sampling and overall variance	6
5	Sampling schemes	7
6	Minimization of bias and unbiased increment mass	13
6.1	Minimizing bias	13
6.2	Volume of increment for falling stream samplers to avoid bias	14
6.3	Volume of increment for manual sampling to avoid bias	14
7	Precision of sampling and determination of increment variance	15
7.1	Overall precision	15
7.2	Primary increment variance	15
7.3	Preparation and testing variance	16
8	Number of sub-lots and number of increments per sub-lot	16
9	Minimum mass of solids in lot and sub-lot samples	17
9.1	General	17
9.2	Minimum mass of solids in lot samples	17
9.3	Minimum mass of solids in sub-lot samples	17
9.4	Minimum mass of solids in lot and sub-lot samples after size reduction	17
10	Time-basis sampling	18
10.1	General	18
10.2	Sampling interval	18
10.3	Cutters	18
10.4	Taking of increments	18
10.5	Constitution of lot or sub-lot samples	19
10.6	Division of increments and sub-lot samples	19
10.7	Division of lot samples	19
10.8	Number of cuts for division	19
11	Stratified random sampling within fixed time intervals	19
12	Mechanical sampling from moving streams	20
12.1	General	20
12.2	Design of the sampling system	20
12.3	Slurry sample cutters	22
12.4	Mass of solids in increments	23
12.5	Number of primary increments	23
12.6	Routine checking	23

13	Manual sampling from moving streams	23
13.1	General	23
13.2	Choosing the sampling location	23
13.3	Sampling implements	24
13.4	Mass of solids in increments	24
13.5	Number of primary increments	24
13.6	Sampling procedures	25
14	Sampling of stationary slurries	25
15	Sample preparation procedures	25
15.1	General	25
15.2	Reduction mills	25
15.3	Sample division	25
15.4	Chemical analysis samples	25
15.5	Physical test samples	26
16	Packing and marking of samples	26
	Annex A (informative) Examples of correct slurry devices	27
	Annex B (informative) Examples of incorrect slurry sampling devices	30
	Annex C (normative) Manual sampling implements	34
	Bibliography	35