

# ISO 13909-3:2016-07 (E)

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

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>1</b>
<b>4</b>	<b>Establishing a sampling scheme .....</b>	<b>1</b>
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
<b>5</b>	<b>Methods of sampling from wagons, barges and ships .....</b>	<b>10</b>
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
<b>6</b>	<b>Methods of sampling from stockpiles .....</b>	<b>12</b>
<b>7</b>	<b>Sampling equipment -- mechanical auger .....</b>	<b>13</b>
<b>8</b>	<b>Handling and storage of samples .....</b>	<b>15</b>
<b>9</b>	<b>Sample preparation .....</b>	<b>16</b>
<b>10</b>	<b>Minimization of bias .....</b>	<b>16</b>
10.1	Causes of bias .....	16
10.2	Checking for precision and bias .....	16
<b>11</b>	<b>Verification .....</b>	<b>17</b>
<b>Bibliography .....</b>		<b>18</b>