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Standard Method for SIEVE ANALYSIS OF COAL¹

This standard is issued under the fixed designation D 410; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This method for sieve analysis is applicable to all coal except anthracite, powdered coal as used in boiler plants, and crushed coal as charged into coke ovens.

1.2 The values stated in inch-pound units are to be regarded as the standard.

1.3 *This standard may involve hazardous materials, operations, and equipment. This standard does not purport to address all of the safety problems associated with its use. It is the responsibility of whoever uses this standard to consult and establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Applicable Documents

2.1 ASTM Standards:

- D 346 Method of Collection and Preparation of Coke Samples for Laboratory Analysis²
- E 11 Specification for Wire-Cloth Sieves for Testing Purposes²
- E 323 Specification for Perforated-Plate Sieves for Testing Purposes²

3. Significance and Use

3.1 This method concerns the separation of coal into definite size fractions for purposes of characterizing the material for further processing or for commercial purposes.

4. Apparatus

4.1 Sieves of the following series shall be used conforming to Specifications E 11 or E 323.

4.1.1 Round-Hole Screens:

8-in. (...)	1½-in. (37.5 mm)
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6-in. (...)	1¼-in. (31.5-mm)
5-in. (125-mm)	1-in. (25.0-mm)
4-in. (100-mm)	¾-in. (19.0-mm)
3-in. (75-mm)	½-in. (12.5-mm)
2½-in. (63-mm)	¾-in. (9.5-mm)
2-in. (50-mm)	

4.1.2 Wire-Cloth Sieves with Square Openings:

4.75-mm (No. 4)
2.36-mm (No. 8)
1.18-mm (No. 16)
600-μm (No. 30)
300-μm (No. 50)
150-μm (No. 100)
75-μm (No. 200)

5. Time of Sampling

5.1 Sample coal when it is being loaded into or unloaded from railroad cars, ships, barges, or wagons, or when discharged from supply bins, or from industrial railway cars, or grab buckets, or from any coal-conveying equipment, as the case may be. It is not feasible to collect representative samples for screen analysis from the surface of coal in piles or from loaded cars or bins.

6. Collection of Gross Sample

6.1 Collect increments regularly and systematically, so that the entire quantity of coal sampled will be represented proportionately in the

¹ This method is under the jurisdiction of ASTM Committee D-5 on Coal and Coke and is the direct responsibility of Subcommittee D05.07 on Physical Characteristics of Coal.

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² Annual Book of ASTM Standards, Vol 05.05.