

Standard Method of
**SAMPLING AND ANALYSIS OF COAL FOR VOLATILE
MATTER DETERMINATION IN CONNECTION
WITH SMOKE ORDINANCES¹**



ASTM Designation: D 980 - 53

ADOPTED, 1953.²

Reapproved in 1961 Without Change.

This Standard of the American Society for Testing and Materials is issued under the fixed designation D 980; the final number indicates the year of original adoption as standard or, in the case of revision, the year of last revision.

Scope

1. This method is limited to the sampling and analysis of coal for volatile matter determination reported on the moisture- and ash-free basis in connection with smoke ordinances regarding permissible volatile matter content of solid fuels.

Procedure

2. The content of volatile matter of a specific lot of coal shall be determined by analyzing a gross sample of not less than 90 lb, consisting of a minimum of nine increments, each increment weighing not less than 10 lb. Sampling and analysis shall be carried out as described in the following Paragraphs (a), (b), and (c).

(a) *Collection of Gross Sample.*—The

procedure for collecting the increments shall fulfill all of the requirements of good sampling as specified in Section 2(a), (b), (c), and (g) and Section 6 of the Methods of Sampling Coals Classified According to Ash Content (ASTM Designation: D 492).³

(b) *Reduction of Sample.*—The 90-lb minimum gross sample obtained by the procedure prescribed in Paragraph (a) shall be reduced for analysis by mechanical preparation in accordance with the Method of Preparing Coal Samples for Analysis (ASTM Designation: D 2013).³

(c) *Analysis of Sample.*—The laboratory determination for volatile matter content shall be made in accordance with Section 16(a) and (c), Section 17 and Section 18(b) of the Methods of Laboratory Sampling and Analysis of Coal and Coke (ASTM Designation: D 271).³

Moisture and ash determinations for use in calculating volatile matter to a

¹ Under the standardization procedure of the Society, this method is under the jurisdiction of the ASTM Committee D-5 on Coal and Coke.

² Prior to adoption as standard, this method was published as tentative from 1948 to 1953.

³ Appears in this publication.