



Designation: E 1131 – 9803

Standard Test Method for Compositional Analysis by Thermogravimetry¹

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1. Scope

1.1 This test method ~~is intended to provide~~ provides a general technique incorporating thermogravimetry to determine the amount of highly volatile matter, medium volatile matter, combustible material, and ash content of compounds. This test method will be useful in performing a compositional analysis in cases where agreed upon by interested parties.

1.2 This test method is applicable to solids and liquids.

1.3 The temperature range of test is typically room temperature to 1000°C. Composition between 1 and 100 weight % of individual components may be determined.

1.4 This test method utilizes an inert and reactive gas environment.

1.5 Computer or electronic-based instruments, techniques, or data treatment equivalent to this test method may also be used.

NOTE 1—Users of this test method are expressly advised that all such instruments or techniques may not be equivalent. It is the responsibility of the user of this test method to determine the necessary equivalency prior to use.

~~1.6 The values stated in~~

~~1.6~~ SI units are ~~to be regarded as~~ the standard.

~~1.7 This standard is related ISO 11358 but is more detailed and specific.~~

~~1.8 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.~~

2. Referenced Documents

2.1 *ASTM Standards:*

D 3172 Practice for Proximate Analysis of Coal and Coke²

¹ This test method is under the jurisdiction of ASTM Committee E-37 on Thermal Measurements and is the direct responsibility of Subcommittee E37.01 on Thermal Analysis Methods.

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