

Designation: D 6353 – 98 (Reapproved 2003)

An American National Standard

Standard Guide for Sampling Plan and Core Sampling for Prebaked Anodes Used in Aluminum Production¹

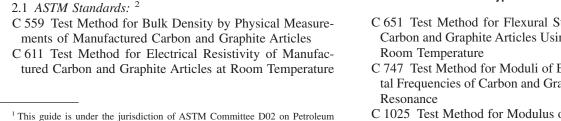
This standard is issued under the fixed designation D 6353; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

- 1.1 This guide covers sampling for prebaked carbon anodes used in the production of aluminum, and details procedures for taking test samples from anode blocks. It covers equipment and procedures for obtaining samples from anode blocks in a manner that does not destroy the block or prevent its subsequent use as originally intended. However, the user must determine the subsequent use of the sampled anode blocks. Preferred locations for taking samples from single units of anodes are covered in this guide.
- 1.1.1 Information for sampling of shaped refractory products, in general, is given in ISO 5022. This standard details the statistical basis for sampling plans for acceptance testing of a consignment or lot. Anodes used in the production of aluminum have specific requirements for sampling and while the statistical basis for sampling given in ISO 5022 applies, further or modified requirements may also apply.
- 1.2 The values stated in SI units are to be regarded as the standard.
- 1.3 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.

Note 1—The following ASTM standards are noted as sources of useful information: Test Methods C 559, C 611, C 651, C 747, C 1025, C 1039, and C 1225.

2. Referenced Documents



Products and Lubricants and is the direct responsibility of Subcommittee D02.05 on Properties of Fuels, Petroleum Coke and Carbon Material.

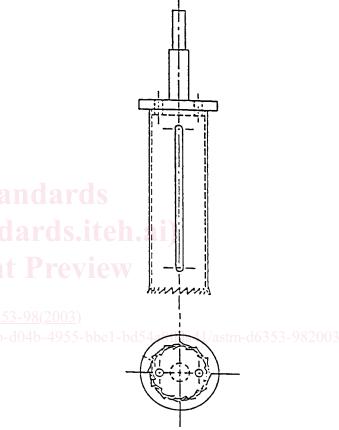


FIG. 1 Typical Core Drill Bit

- C 651 Test Method for Flexural Strength of Manufactured Carbon and Graphite Articles Using Four-Point Loading at
- C 747 Test Method for Moduli of Elasticity and Fundamental Frequencies of Carbon and Graphite Materials by Sonic
- C 1025 Test Method for Modulus of Rupture in Bending of Electrode Graphite
- C 1039 Test Methods for Apparent Porosity, Apparent Specific Gravity, and Bulk Density of Graphite Electrodes
- C 1225 Test Method for Thermal Conductivity of Solids by Means of the Guarded-Comparative-Longitudinal Heat Flow Technique

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.