



Designation: D 4620 – 9802

Standard Test Method for Evaluating the Effective Surface Area of Zinc Oxide in Rubber¹

This standard is issued under the fixed designation D 4620; 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 test method specifies the standard materials, mixing procedure, and test method for ranking zinc-oxide samples according to their specific surface area in a standard test formula based on chloroprene rubber (CR).

1.2 The ranking is based on the cure time of the standard CR formulation.

1.3 The accurate surface area cannot be determined by this test method, since factors other than surface area may influence the cure times to some extent (for example acidity, heavy metal traces, ~~agreement of test results between laboratories~~, etc.).

1.4 The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only.

1.5 *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:*

¹ This test method is under the jurisdiction of ASTM Committee D-11 on Rubber and is the direct responsibility of Subcommittee D11.20 on Compounding Materials and Procedures.

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