



Designation: D 5051 – 9702

Standard Test Method for Rubber Chemicals—Benzothiazyl Disulfide (MBTS)—Assay¹

This standard is issued under the fixed designation D 5051; 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 describes the determination of assay of benzothiazyl disulfide (MBTS). It is based on a titration of free iodine liberated upon reduction of MBTS, with potassium iodide (KI) in acid medium.

1.2 The assay is determined as mass percent.

1.3 Free 2-mercaptobenzothiazole (MBT) content is not determined.

1.4 The values stated in SI units are to be regarded as the standard.

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:*

D 1193 Specification for Reagent Water²

¹ This test method is under the jurisdiction of ASTM Committee D-11 on Rubber and is the direct responsibility of Subcommittee D11.11 on Chemical Analysis. Current edition approved Nov. 10, 1997; 2002. Published April 1998. Originally published as D 5051-97. Last previous edition D 5051-97.