



**Designation: D 3504 – 96**

## **Standard Specification for Maleic Anhydride<sup>1</sup>**

This standard is issued under the fixed designation D 3504; 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 ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

### **1. Scope**

- 1.1 This specification covers maleic anhydride.
- 1.2 Consult current OSHA regulations and supplier's Material Safety Data Sheets, and local regulations for all materials used in this specification.
- 1.3 The following applies to all specified limits in this specification: for purposes of determining conformance with this specification, an observed value or a calculated value shall be rounded off "to the nearest unit" in the last right-hand digit used in expressing the specification limit, in accordance with the rounding-off method of Practice E 29.

### **2. Referenced Documents**

- 2.1 *ASTM Standards:*
  - D 1493 Test Method for Solidification Point of Industrial Organic Chemicals<sup>2</sup>
  - D 3366 Test Method for Color of Maleic Anhydride and Phthalic Anhydride in the Molten State and After Heating

<sup>1</sup> This specification is under the jurisdiction of ASTM Committee D16 on Aromatic Hydrocarbons and Related Chemicals and is the direct responsibility of Subcommittee D16.02 on Oxygenated Aromatics.

Current edition approved Feb. 10, 1996. Published March 1996. Originally published as D 3504 – 76. Last previous edition D 3504 – 91.

<sup>2</sup> *Annual Book of ASTM Standards*, Vol 06.04.

- (Platinum-Cobalt Scale)<sup>2</sup>
- D 3438 Practice for Sampling and Handling Naphthalene, Maleic Anhydride, and Phthalic Anhydride<sup>2</sup>
- E 29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications<sup>3</sup>
- 2.2 *Other Document:*
  - OSHA Regulations*, 29 CFR, paragraphs 1910.1000 and 1910.1200<sup>4</sup>

### **3. Properties**

- 3.1 Maleic anhydride shall conform to the following requirements:

Property	Specification	ASTM Test Method
Solidification point, min, °C	52.5	D 1493
Molten color, max	25	D 3366
Molten color after heating, max	40	D 3366

### **4. Sampling**

- 4.1 This material shall be sampled in accordance with Practice D 3438.

### **5. Keywords**

- 5.1 color; maleic anhydride; solidification point

<sup>3</sup> *Annual Book of ASTM Standards*, Vol 14.02.

<sup>4</sup> Available from Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

*ASTM International takes no position respecting the validity of any patent rights asserted in connection with any item mentioned in this standard. Users of this standard are expressly advised that determination of the validity of any such patent rights, and the risk of infringement of such rights, are entirely their own responsibility.*

*This standard is subject to revision at any time by the responsible technical committee and must be reviewed every five years and if not revised, either reapproved or withdrawn. Your comments are invited either for revision of this standard or for additional standards and should be addressed to ASTM International Headquarters. Your comments will receive careful consideration at a meeting of the responsible technical committee, which you may attend. If you feel that your comments have not received a fair hearing you should make your views known to the ASTM Committee on Standards, at the address shown below.*

*This standard is copyrighted by ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959, United States. Individual reprints (single or multiple copies) of this standard may be obtained by contacting ASTM at the above address or at 610-832-9585 (phone), 610-832-9555 (fax), or service@astm.org (e-mail); or through the ASTM website (www.astm.org).*