Designation: D6367 – 16

Standard Specification for AMS (α-Methylstyrene)[1]

This standard is issued under the fixed designation D6367; 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 specification covers AMS (α-Methylstyrene).

1.2 The following applies to all 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 E29.

1.3 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.

1.4 Consult current OSHA regulations, suppliers' Safety Data Sheets, and local regulations for all materials used in this specification.

2. Referenced Documents

2.1 *ASTM Standards:*[2]

D3160 Test Method for Phenol Content of Cumene (Isopropylbenzene) or AMS (α–Methylstyrene)

D3437 Practice for Sampling and Handling Liquid Cyclic Products

D4590 Test Method for Colorimetric Determination of *p-tert*-Butylcatechol In Styrene Monomer or AMS (α–Methylstyrene) by Spectrophotometry

D5386 Test Method for Color of Liquids Using Tristimulus Colorimetry

D6144 Test Method for Analysis of AMS (α-Methylstyrene) by Capillary Gas Chromatography

D7977 Test Methods for Polymer Content of AMS (α-Methylstyrene)

D8005 Test Method for Color of Clear Liquids (Platinum-Cobalt Scale)

E29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications

2.2 *Other Documents:*

OSHA Regulations 29 CFR paragraphs 1910.1000 and 1910.1200[3]

3. Properties

3.1 AMS shall conform to the requirements shown in Table 1.

4. Sampling

4.1 Sample the material in accordance with Practice D3437.

5. Keywords

5.1 α-Methylstyrene; AMS; catechol; TBC; tertiary-butyl catechol

[1] This specification is under the jurisdiction of ASTM Committee D16 on Aromatic Hydrocarbons and Related Chemicals and is the direct responsibility of Subcommittee D16.07 on Styrene, Ethylbenzene and C9 and C10 Aromatic Hydrocarbons.

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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.

[3] Available from U.S. Government Printing Office Superintendent of Documents, 732 N. Capitol St., NW, Mail Stop: SDE, Washington, DC 20401, http://www.access.gpo.gov.

***A Summary of Changes section appears at the end of this standard**

TABLE 1 Requirements

Property	Specification	ASTM Test Method
AMS, min, weight %	99.00	D6144
Phenols, max, mg/kg	20	D3160
Polymer, max, mg/kg	10	D7977, Test Method A
Inhibitor, mg/kg	10-20 (or as required)[A,B]	D4590 or D6144
Appearance	[B]	
Color, max, Pt-Co	20[C]	D5386 or D8005

[A] Typically TBC (para-tertiary-butyl catechol).
[B] Clear liquid free of sediment and haze when observed at 18.3 to 25.6°C.
[C] Test Method D5386 is the referee test method in case of dispute.

SUMMARY OF CHANGES

Committee D16 has identified the location of selected changes to this standard since the last issue (D6367–12) that may impact the use of this standard. (Approved July 1, 2016.)

(1) Section 2.1 — Removed D1209 and D2121 and added D7977 and D8005.

(2) Section 3.1 — Removed D1209 and D2121 and added D7977 and D8005.