



Designation: D 6367 – 04

Standard Specification for AMS (α -Methylstyrene)¹

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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 E 29.

1.3 Consult current OSHA regulations, suppliers’ Material Safety Data Sheets, and local regulations for all materials used in this specification.

2. Referenced Documents

2.1 *ASTM Standards*:²

D 1209 Test Method for Color of Clear Liquids (Platinum-Cobalt Scale)

D 2121 Test Method for Polymer Content of Styrene Monomer and α -Methylstyrene

D 3160 Test Method for Phenol Content of Cumene (Isopropylbenzene) or AMS (α -Methylstyrene)

D 3437 Practice for Sampling and Handling Liquid Cyclic Products

D 4590 Test Method for Colorimetric Determination of *p*-tert-Butylcatechol in Styrene Monomer or AMS (α -Methylstyrene) by Spectrophotometry

¹This 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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²For 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.

TABLE 1 Requirements

Property	Specification	ASTM Test Method
AMS, min, weight %	99.00	D 6144
Phenols, max, mg/kg	20	D 3160
Polymer, max, mg/kg	10	D 2121, Test Method A
Inhibitor, mg/kg	10-20 (or as required) ^{A,B}	D 4590 or D 6144
Appearance		
Color, max, Pt-Co	20 ^C	D 1209 or D 5386

^ATypically TBC (para-tertiary-butyl catechol).

^BClear liquid free of sediment and haze when observed at 18.3 to 25.6°C (65 to 78°F).

^CTest Method D 5386 is the referee test method in case of dispute.

D 5386 Test Method for Color of Liquids Using Tristimulus Colorimetry

D 6144 Test Method for Analysis of AMS (α -Methylstyrene) by Capillary Gas Chromatography

E 29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications

2.2 *Other Documents*:

OSHA Regulations, 29CFR, paragraphs 1910.1000 and 1910.1200³

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 D 3437.

5. Keywords

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

³ Available from U.S. Government Printing Office Superintendent of Documents, 732 N. Capitol St., NW, Mail Stop: SDE, Washington, DC 20401.

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