



Designation: D 6367 – 99

## Standard Specification for AMS ( $\alpha$ -Methylstyrene)<sup>1</sup>

This standard is issued under the fixed designation D 6367; 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 approval. A superscript epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

### 1. Scope

1.1 This specification covers AMS ( $\alpha$ -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:

- D 1209 Test Method for Color of Clear Liquids (Platinum-Cobalt Scale)<sup>2</sup>
- D 2121 Test Method for Polymer Content of Styrene Monomer and  $\alpha$ -Methylstyrene<sup>2</sup>
- D 3160 Test Method for Phenol Content of Cumene (Isopropylbenzene) or AMS ( $\alpha$ -Methylstyrene)<sup>2</sup>
- D 3437 Practice for Sampling and Handling Liquid Cyclic Products<sup>2</sup>
- D 4590 Test Method for Colorimetric Determination of *p*-tert-Butylcatechol in Styrene Monomer or AMS ( $\alpha$ -Methylstyrene) by Spectrophotometry<sup>2</sup>
- D 5386 Test Method for Color of Liquids Using Tristimulus Colorimetry<sup>2</sup>

<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 D16.07 on Styrene, Ethylbenzene, and C<sub>9</sub> and C<sub>10</sub> Aromatic Hydrocarbons.

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

D 6144 Standard Test Method for Analysis of AMS ( $\alpha$ -Methylstyrene) by Capillary Gas Chromatography<sup>2</sup>

E 29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications<sup>3</sup>

#### 2.2 Other Documents:

OSHA Regulations, 29CFR, paragraphs 1910.1000 and 1910.1200<sup>4</sup>

### 3. Properties

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

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)	D 4590
Appearance	<sup>A</sup>	
Color, max, Pt-Co	20 <sup>B</sup>	D 1209 or D 5386

<sup>A</sup>Clear liquid free of sediment and haze when observed at 18.3 to 25.6°C (65 to 78°F).

<sup>B</sup>Test Method D 5386 is the referee test method in case of dispute.

### 4. Sampling

4.1 Sample the material in accordance with Practice D 3437.

### 5. Keywords

5.1 AMS; $\alpha$ -Methylstyrene

<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.

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