



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:*

D 1209 Test Method for Color of Clear Liquids (Platinum-Cobalt Scale)²

D 2121 Test Method for Polymer Content of Styrene Monomer and α -Methylstyrene²

D 3160 Test Method for Phenol Content of Cumene (Isopropylbenzene) or AMS (α -Methylstyrene)²

D 3437 Practice for Sampling and Handling Liquid Cyclic Products²

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 *Annual Book of ASTM Standards*, Vol 06.04.

D 4590 Test Method for Colorimetric Determination of *p*-tert-Butylcatechol in Styrene Monomer or AMS (α -Methylstyrene) by Spectrophotometry²

D 5386 Test Method for Color of Liquids Using Tristimulus Colorimetry²

D 6144 Standard Test Method for Analysis of AMS (α -Methylstyrene) by Capillary Gas Chromatography²

E 29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications³

2.2 *Other Documents:*

OSHA Regulations, 29CFR, paragraphs 1910.1000 and 1910.1200⁴

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 AMS; α -Methylstyrene

³ *Annual Book of ASTM Standards*, Vol 14.02.

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

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	^A	
Color, max, Pt-Co	20 ^B	D 1209 or D 5386

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

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

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