



Designation: D3735 – 22

Standard Specification for VM&P Naphthas¹

This standard is issued under the fixed designation D3735; 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 four types of moderately volatile hydrocarbon solvents, mainly aliphatic in composition and normally petroleum distillates. These solvents are used primarily by the coatings industry and are commonly referred to as VM&P naphthas.

1.2 The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only.

1.3 The following applies to all specified limits in this standard; for purposes of determining conformance with this standard, 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.

1.4 For specific hazard information and guidance, see the supplier’s Material Safety Data Sheet for materials listed in this specification.

1.5 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 ASTM Standards:²

- D56 Test Method for Flash Point by Tag Closed Cup Tester
- D86 Test Method for Distillation of Petroleum Products and Liquid Fuels at Atmospheric Pressure
- D130 Test Method for Corrosiveness to Copper from Petroleum Products by Copper Strip Test

¹ This specification is under the jurisdiction of ASTM Committee D01 on Paint and Related Coatings, Materials, and Applications and is the direct responsibility of Subcommittee D01.35 on Solvents, Plasticizers, and Chemical Intermediates.

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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.

- D156 Test Method for Saybolt Color of Petroleum Products (Saybolt Chromometer Method)
 - D268 Guide for Sampling and Testing Volatile Solvents and Chemical Intermediates for Use in Paint and Related Coatings and Material
 - D1133 Test Method for Kauri-Butanol Value of Hydrocarbon Solvents
 - D1159 Test Method for Bromine Numbers of Petroleum Distillates and Commercial Aliphatic Olefins by Electro-metric Titration
 - D1209 Test Method for Color of Clear Liquids (Platinum-Cobalt Scale)
 - D1296 Test Method for Odor of Volatile Solvents and Diluents (Withdrawn 2021)³
 - D1319 Test Method for Hydrocarbon Types in Liquid Petroleum Products by Fluorescent Indicator Adsorption
 - D3257 Test Methods for Aromatics in Mineral Spirits by Gas Chromatography (Withdrawn 2021)³
 - D3278 Test Methods for Flash Point of Liquids by Small Scale Closed-Cup Apparatus
 - D4052 Test Method for Density, Relative Density, and API Gravity of Liquids by Digital Density Meter
 - D5386 Test Method for Color of Liquids Using Tristimulus Colorimetry
 - E29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications
 - E300 Practice for Sampling Industrial Chemicals
- 2.2 U.S. Federal Specification:⁴
- PPP-C-2020 Chemicals, Liquid, Dry, and Paste: Packaging of

3. Classification

3.1 VM&P naphthas shall be of the following types, as specified:

- 3.1.1 *Type I*—Regular.
- 3.1.2 *Type II*—High flash.
- 3.1.3 *Type III*—Odorless.
- 3.1.4 *Type IV*—Low aromatics.

³ The last approved version of this historical standard is referenced on www.astm.org.

⁴ Available from Standardization Documents Order Desk, DODSSP, Bldg. 4, Section D, 700 Robbins Ave., Philadelphia, PA 19111-5098, <http://www.dodssp.daps.mil>.