



Standard Specification for Solvent Cements for Poly(Vinyl Chloride) (PVC) Plastic Piping Systems¹

This standard is issued under the fixed designation D2564; 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.

This standard has been approved for use by agencies of the U.S. Department of Defense.

1. Scope*

1.1 This specification covers requirements for poly(vinyl chloride) (PVC) solvent cements to be used in joining poly(vinyl chloride) piping systems.

1.2 These solvent cements are used with poly(vinyl chloride) piping systems made from compounds as defined in Specification [D1784](#).

1.3 A procedure for joining PVC pipe and fittings is given in Practice [D2855](#).

1.4 The text of this specification references notes, footnotes, and appendixes which provide explanatory material. These notes and footnotes (excluding those in tables and figures) shall not be considered as requirements of the specification.

1.5 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.6 The following safety hazards caveat pertains only to the test methods portion, Section 6, of this specification: *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:²

[D1084](#) Test Methods for Viscosity of Adhesives

[D1600](#) Terminology for Abbreviated Terms Relating to Plastics

[D1784](#) Specification for Rigid Poly(Vinyl Chloride) (PVC) Compounds and Chlorinated Poly(Vinyl Chloride) (CPVC) Compounds

[D1785](#) Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120

[D2467](#) Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80

[D2855](#) Practice for Making Solvent-Cemented Joints with Poly(Vinyl Chloride) (PVC) Pipe and Fittings

[F402](#) Practice for Safe Handling of Solvent Cements, Primers, and Cleaners Used for Joining Thermoplastic Pipe and Fittings

[F412](#) Terminology Relating to Plastic Piping Systems

[F493](#) Specification for Solvent Cements for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe and Fittings

2.2 National Sanitation Foundation Standards:³

[Standard No. 14](#) for Plastic Piping Components and Related Materials

[Standard No. 61](#) for Drinking Water Systems Components—Health Effects

3. Terminology

3.1 *Definitions*—Definitions are in accordance with Terminology [F412](#), and abbreviations are in accordance with Terminology [D1600](#), unless otherwise specified.

4. Materials and Manufacture

4.1 The solvent cement shall be a solution of the base PVC resin used to make Class 12454-B poly(vinyl chloride) molding or extrusion compound as defined in Specification [D1784](#).

4.2 When rework material is used, the manufacturer shall use only his own clean rework material that is compatible with virgin material and produces a cement that meets the requirements of this specification.

4.3 The cement shall be free-flowing and shall not contain lumps, macroscopic undissolved particles, or any foreign

¹ This specification is under the jurisdiction of ASTM Committee [F17](#) on Plastic Piping Systems and is the direct responsibility of Subcommittee [F17.20](#) on Joining. Current edition approved Aug. 1, 2012. Published December 2012. Originally approved in 1966. Last previous edition approved in 2009 as D2564 – 04(2009) ^{ϵ 1}. DOI: 10.1520/D2564-12.

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 NSF International, P.O. Box 130140, 789 N. Dixboro Rd., Ann Arbor, MI 48113-0140, <http://www.nsf.org>.