



TECHNICAL BULLETIN
ASTM Standards for CPVC Solvent Cements
(1/2012)

American Society for Testing & Materials (ASTM) publishes a variety of Standards for CPVC plastic pipe and fittings. With regard to plastic pipe solvent cements, the most prominent referenced documents are ASTM F 402, F 493 and ASTM D 2846. While each of these documents is related to CPVC solvent cements, they are individually titled and specific in scope.

ASTM F 402 is titled Standard Practice for Safe Handling of Solvent Cements, Primers, and Cleaners Used for Joining Thermoplastic Pipe and Fittings. This practice covers procedures for safe handling of solvent cements, primers, and cleaners used in joining thermoplastic pipe and fittings. The procedures are general ones and include safeguards against hazards of fire and precautions for protection of personnel from breathing of vapors and contact with skin or eyes.

ASTM F 493 is titled Standard Specification for Solvent Cements for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe and Fittings. This specification provides requirements for chlorinated poly(vinyl chloride) (CPVC) solvent cements to be used in joining chlorinated poly(vinyl chloride) pipe, tubing, and socket-type fittings.

ASTM D 2846 is titled Standard Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Hot- and Cold-Water Distribution Systems. This specification covers requirements, test methods, and methods of marking for chlorinated poly(vinyl chloride) plastic hot- and cold-water distribution system components made in one standard dimension ratio and intended for water service up to and including 180°F (82°C). These components comprise pipe and tubing, socket-type fittings, street fittings, plastic-to-metal transition fittings, solvent cements, and adhesives. Requirements and methods of test are included for materials, workmanship, dimensions and tolerances, hydrostatic sustained pressure strength, and thermocycling resistance. The components covered by this specification are intended for use in residential and commercial, hot and cold, potable water distribution systems.

Many model plumbing codes require that Solvent Cements used to join CPVC pipe and fittings meet ASTM F 493, the Standard specific to CPVC Solvent Cements. The completed joints in the piping system are required to meet the requirements stated in ASTM D 2846, the Standard for the piping system. Using Oatey CPVC Solvent Cements compliant with ASTM F 493 will ensure compliance of the completed CPVC Distribution System to ASTM D 2846 with regard to solvent welded joints.

Please contact Oatey Technical Service Department or visit ASTM's website at www.astm.org if you have any questions or need additional information.