



Designation: D365 – 23

Standard Guide for Soluble Nitrocellulose Base Solutions¹

This standard is issued under the fixed designation D365; 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 guide covers the testing of soluble nitrocellulose base solutions that are made by dispersing various kinds and concentrations of soluble nitrocellulose (cellulose nitrate) in various solvent mixtures.

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 *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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.* For specific hazard statements see Section 11.

1.4 *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

D333 Guide for Clear and Pigmented Lacquers

¹ This guide is under the jurisdiction of ASTM Committee D01 on Paint and Related Coatings, Materials, and Applications and is the direct responsibility of Subcommittee D01.55 on Factory Applied Coatings on Preformed Products.

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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.

D1193 Specification for Reagent Water

D1200 Test Method for Viscosity by Ford Viscosity Cup

E300 Practice for Sampling Industrial Chemicals

3. Significance and Use

3.1 Since the desired specifications and compositions of soluble nitrocellulose base solutions vary greatly, these methods are used to establish whether limits that shall be as agreed upon between the producer and the user have been met.

4. Sampling

4.1 Select the sampling method from those listed in Practice E300.

CONSISTENCY (VISCOSITY)

5. Consistency Tests

5.1 *For Consistencies Less than 3 s*—Determine the consistency by Test Method D1200 for those solutions having a consistency of less than 3 s when tested in the falling-ball apparatus referred to in Section 6.

5.2 *For Consistencies over 3 s*—Determine the consistency using the apparatus and procedure described in Sections 6 and 7 for those solutions having a consistency greater than 500 s when tested in the falling-ball apparatus referred to in Section 6.

6. Apparatus

6.1 The consistency test apparatus, shown in Fig. 1, shall consist of the following: