



Designation: D4030/D4030M – 23

Standard Specification for Glass Fiber Cord and Sewing Thread¹

This standard is issued under the fixed designation D4030/D4030M; 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 reappraisal. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reappraisal.

1. Scope

1.1 This specification covers the requirements for continuous glass filament sewing thread; and continuous filament cord, untreated and neoprene treated.

1.2 This specification is intended to assist ultimate users by designating the types of these products that are typical in the industry.

1.3 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system are not exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems will result in nonconformance with the standard.

1.4 *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.*

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

D123 Terminology Relating to Textiles

D204 Test Methods for Sewing Threads

D578/D578M Specification for Glass Fiber Strands

D1423/D1423M Test Method for Twist in Yarns by Direct-Counting

D1776/D1776M Practice for Conditioning and Testing Textiles

¹ This specification is under the jurisdiction of ASTM Committee D13 on Textiles and is the direct responsibility of Subcommittee D13.18 on Glass Fiber and Its 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.

D4963/D4963M Test Method for Ignition Loss of Glass Fiber Strands and Fabrics

D7018/D7018M Terminology Relating to Glass Fiber and Its Products (Withdrawn 2021)³

2.2 *ANSI Standard:*

ANSI/ASQC Z1.4 Sampling Procedures for Inspection by Attributes⁴

3. Terminology

3.1 For all terminology under the jurisdiction of Subcommittee D13.18 (cord, neoprene treated, sewing thread, twist balance, untreated), refer to Terminology D7018/D7018M.

3.2 For definitions of other textile terms used in this specification, refer to Terminology D123.

4. Designation of Construction

4.1 The yarn designations of fiber glass cords and sewing threads are specified as directed in Specification D578/D578M except that for the cords either the letter “U” or the letter “N” is added to the last segment of the designation.

4.1.1 Cord designations include a type number that describes the relative diameter of the cords and treatment. The first character of this designation is a numeral from 1 to 10 that indicates the relative diameter of the cord to other cords, that is, 2 is larger than 1, 3 is larger than 2, etc. The second character of this designation is the letter “U” or the letter “N”. The “U” indicates that the cord is untreated, and the “N” indicates that the cord is neoprene treated. The type number for cord is included in Tables 1 and 2 to show its relationship to designation.

4.1.2 Sewing thread construction includes a type number that describes a manufacturer's code and the size. The second character is a numeral and indicates the relative diameter of the sewing threads, that is, 4 is larger than 2, 6 is larger than 4, etc. This type number for sewing thread is included in Table 3 to show its relationship to designation.

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

⁴ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, <http://www.ansi.org>.