



Designation: D4465 – 05(Reapproved 2010)

Standard Performance Specification for Zippers for Dungarees, Jeans and Work Trousers¹

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1. Scope

1.1 This performance specification covers zippers to be used as fly closures in dungarees, jeans and work trousers made from heavy denim or other durable fabric, approximately 475 g/m² (14 oz/yd²).

1.2 Zippers covered by this specification may be satisfactory for lighter weight denim and other fabrics.

1.2.1 When lighter weight material is being used, consideration should be given to the zipper size and slider type because of their effect on the appearance of the zipper installation area.

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

2. Referenced Documents

2.1 *ASTM Standards*:²

D123 Terminology Relating to Textiles

D2050 Terminology Relating to Fasteners and Closures Used with Textiles

D2057 Test Method for Colorfastness of Zippers to Laundering

D2060 Test Methods for Measuring Zipper Dimensions

D2061 Test Methods for Strength Tests for Zippers

D2062 Test Methods for Operability of Zippers

D2905 Practice for Statements on Number of Specimens for Textiles (Withdrawn 2008)³

3. Terminology

3.1 *Definitions*:

3.1.1 *denim, n*—a durable woven twill fabric, usually of all cotton or a blend of cotton and man-made fibers, made from a variety of yarn numbers, and in various fabric weights, colors, designs, and finishes.

¹ This performance specification is under the jurisdiction of ASTM Committee D13 on Textiles and is the direct responsibility of Subcommittee D13.54 on Subassemblies. This performance specification was developed in cooperation with the Slide Fastener Association, Inc.

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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.

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

3.1.1.1 *Discussion*—Traditionally, denim is made with indigo blue dyed cotton warp and undyed or tinted filling. Denim fabrics are used for many types of garments including work clothes, sportswear, dresswear, and home furnishings.

3.2 *Definitions of Terms Specific to This Standard*:

3.2.1 *jeans, n*—a style of trousers made of a twill fabric used as sportswear and work clothing.

3.2.2 *dungaree, n*—trousers made from denim and designed for general heavy work wear.

3.2.3 *trouser, n*—a garment that closes at the waist and covers the lower body to the crotch and each leg from the waist to the ankle.

3.3 For other textile terminology used in this specification, refer to Terminology D123. For definitions of zipper terms used in this specification, refer to Terminology D2050.

4. Specification Requirements

4.1 The properties of zippers for dungarees, jeans and work trousers shall conform to the specification requirements in Table 1.

5. Significance and Use

5.1 This specification serves as a guide for the purchase of zippers to be used for dungarees, jeans or work trousers.

5.2 Upon agreement between the purchaser and the supplier, zippers intended for this end-use should meet all of the requirements listed in Table 1 of this specification.

5.3 It is recognized that for purposes of fashion or aesthetics the ultimate consumer may find acceptable dungarees, jeans or work trousers, having zippers that do not conform to all of the requirements in Table 1. Therefore, one or more of the requirements listed in Table 1 may be modified by agreement between the purchaser and the supplier.

5.3.1 In such cases, and references to this specification shall specify that: This zipper meets Performance Specification D4465 except for the following characteristic(s).

5.4 Where no prepurchase agreement has been reached between the purchaser and the supplier, and in case of controversy, the requirements listed in Table 1 are intended to be used as a guide only. As noted in 5.3 ultimate consumer demands dictate varying performance parameters for any particular style of zipper.