



Designation: D 4465 – 97

Standard Performance Specification for Zippers for Denim Dungarees¹

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1. Scope

1.1 This performance specification covers zippers to be used as fly closures in dungarees made from heavy denim, 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 other acceptable metric units or in other units shall be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system must be used independently of the other, without combining values in any way.

2. Referenced Documents

2.1 ASTM Standards:

- D 123 Terminology Relating to Textiles²
- D 2050 Terminology Relating to Zippers²
- D 2057 Test Method for Colorfastness of Zippers to Laundering²
- D 2060 Test Methods for Measuring Zipper Dimensions²
- D 2061 Test Methods for Strength Tests for Zippers²
- D 2062 Test Methods for Operability of Zippers²
- D 2905 Practice for Statements on Number of Specimens for Textiles²
- D 3657 Specification for Zipper Dimensions³
- D 4109 Performance Specification for Men's and Boys' Woven Coverall, Dungaree, Overall, and Shop-Coat Fabrics³
- D 4118 Performance Specification for Women's Woven Coverall, Dungaree, Overall, and Shop Coat Fabrics³

3. Terminology

3.1 Definitions:

¹ This performance specification is under the jurisdiction of ASTM Committee D-13 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 Annual Book of ASTM Standards, Vol 07.01.

³ Annual Book of ASTM Standards, Vol 07.02.

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.

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

3.2.2 *trouser, n*—an outerwear garment that covers the body from the waist down and is divided so as to make a separate covering for each leg.

3.3 For other textile terminology used in this specification, refer to Terminology D 123. For definitions of zipper terms used in this specification, refer to Terminology D 2050.

4. Specification Requirements

4.1 The properties of zippers for denim dungarees 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 denim dungarees.

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 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 D 4465 except for the following characteristic(s).

5.4 Where no repurchase 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.