



Standard Specification for Packing, Fiberglass, Braided, Rope, and Wick¹

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This standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 This specification covers the general requirements and tests for braided, rope, and wick fiberglass packing used for boiler, furnace, and other high-temperature equipment seals for service temperatures up to 1000°F (538°C).

2. Referenced Documents

2.1 *ASTM Standards:*²

D578 [Specification for Glass Fiber Strands](#)

D3951 [Practice for Commercial Packaging](#)

D4268 [Test Methods for Testing Fiber Ropes](#)

3. Terminology

3.1 ~~Braided fiberglass~~ **braided fiberglass**—A braid constructed of continuous fiberglass strands.

3.2 ~~Plied~~ **plied**—A yarn product produced by twisting together two or more ends of single fiberglass yarns.

3.3 ~~Strand~~ **strand**—An ordered assemblage of textile fibers having a high ratio of length to diameter and normally used as a unit, including slivers, rovings, single yarns, plied yarns, cords, braids, ropes, and so forth.

3.4 ~~Yarn~~ **yarn**—Portion of fiberglass reduced to thread to obtain a fine and thin strand.

3.5 ~~Lot~~ **lot**—Unless otherwise specified herein, a lot should consist of all finished packing of one type and size produced in a continuous run or at the same time under essentially the same conditions. The sampling unit should be one spool, reel, or coil of packing as necessary to enable performance of the required examinations or tests.

4. Classification

4.1 *Classification*—The material shall be of the following types as specified (see 5.1):

Type I—Wick

Type II—Rope

Type III—Braided

5. Ordering Information

5.1 *Acquisition Requirements*—Acquisition documents must specify the following:

(a) Title, number, and date of this specification;

(b) Type, size, and weight of spool, reel, or coil required (see Section 7);

(c) Marking requirements (see Section 15);

(d) Packaging requirements (see Section 16);

(e) Performance requirements; and

(f) Inspection, testing, and certification of the material should be agreed upon between the purchaser and the supplier as part of the purchase contract (see Sections 12 and 14).

6. Materials and Manufacture

6.1 *Material*—The material shall be a continuous, high-density-type ETG fiberglass material (see Specification ~~D-578D~~578).

¹ This specification is under the jurisdiction of ASTM Committee F25 on Ships and Marine Technology and is the direct responsibility of Subcommittee F25.02 on Insulation/Processes.

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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 Vol 07-01, volume information, refer to the standard's Document Summary page on the ASTM website.~~