



Standard Specification for Wildcats, Ship Anchor Chain¹

This standard is issued under the fixed designation F765; 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.

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

^{ε1} NOTE—Reapproved with editorial change to Referenced Documents section in August 2012.

1. Scope

1.1 This specification covers wildcats as used in windlasses to haul in and pay out anchor chain on board ships. An associated chain stopper is used to secure the chain while the ship is anchored, or the anchor is housed.

1.2 Wildcats are of the five whelp type for use with stud link anchor chain conforming to the American Bureau of Shipping Grades 1, 2, and 3. Wildcat dimensions are provided for chains in integral 1/8-in. (3-mm) steps, ranging in size from 3/4 to 4 1/8 in. (19 to 104 mm). Wildcat dimensions for chains in intermediate 1/16-in. (1.5-mm) steps are not provided, but wildcats in these sizes are permitted within the scope of this specification.

1.3 Wildcats are configured to pass detachable links oriented parallel or perpendicular to the wildcat shaft centerline.

1.4 The values stated in inch-pound units are to be regarded as the standard. This specification is for use with anchor chain that is measured in inch-pound units.

2. Referenced Documents

2.1 ASTM Standards:²

A27/A27M Specification for Steel Castings, Carbon, for General Application

A36/A36M Specification for Carbon Structural Steel

A148/A148M Specification for Steel Castings, High Strength, for Structural Purposes

E10 Test Method for Brinell Hardness of Metallic Materials

¹ This specification is under the jurisdiction of ASTM Committee F25 on Ships and Marine Technology and is the direct responsibility of Subcommittee F25.03 on Outfitting and Deck Machinery.

Current edition approved Aug. 15, 2012. Published October 2012. Originally approved in 1982. Last previous edition approved in 2006 as F765 – 93 (2006). DOI: 10.1520/F0765-93R12E01.

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.

2.2 Other Documents:

American Bureau of Shipping, Rules for Building and Classing Steel Vessels, Section, 2.2.2 Anchor Chain³

American Welding Society Structural Welding Code, Chapter D1.1⁴

3. Classification

3.1 The size of the wildcat is identified by the chain size.

3.2 Wildcats are furnished in four types as follows:

3.2.1 *Type I*—Fabricated from structural steel plate for flanges, hubs, whelps, and chain pockets, joined by electric welding. Surface hardness is approximately 150 HB.

3.2.2 *Type II*—Fabricated from structural steel plate for flanges, hubs, and chain pockets; and high-strength steel castings for whelps, joined by electric welding. Surface hardness is approximately 150 HB for flanges and hubs and 300 HB for whelps.

3.2.3 *Type III*—Cast from medium-strength carbon steel castings to provide a surface hardness of approximately 150 HB.

3.2.4 *Type IV*—Cast from high-strength steel castings to provide a surface hardness of approximately 300 HB.

4. Descriptions of Terms

4.1 *chain groove*—circumferential groove at the chain centerline to provide clearance for links passing normal to the wildcat shaft centerline.

4.2 *chain pockets*—recesses between the flanges and whelps into which links with flat side orientated parallel to the wildcat shaft centering lay.

4.3 *detachable link*—a “C” shaped link, closed by means of a pair of closing pieces and a taper pin, and used to join anchor chain lengths and appendages into a continuous length aboard ship.

³ Available from American Bureau of Shipping (ABS), ABS Plaza, 16855 Northchase Dr., Houston, TX 77060.

⁴ Available from The American Welding Society (AWS), 550 NW LeJeune Rd., Miami, FL 33126.