



Designation: ~~A562/A562M-06~~ Designation: A562/A562M – 10

Standard Specification for Pressure Vessel Plates, Carbon Steel, Manganese-Titanium for Glass or Diffused Metallic Coatings¹

This standard is issued under the fixed designation A562/A562M; 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.

1. Scope*

1.1 This specification² covers titanium-bearing carbon steel plates intended for welded glass lined pressure vessels or other applications where the presence of free-iron carbide would be deleterious to the coating. A minimum specific ratio of titanium to carbon is specified.

1.2 The maximum thickness of plates is limited to 2 in. [50 mm].

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

2. Referenced Documents

2.1 *ASTM Standards*:³

A20/A20M [Specification for General Requirements for Steel Plates for Pressure Vessels](#)

3. General Requirements and Ordering Information

~~3.1 Material supplied to this material specification shall conform to Specification A20/A20M. These requirements outline the testing and retesting methods and procedures, permissible variations in dimensions, and mass, quality and repair of defects, marking, loading, etc.~~

~~3.2 Specification. These requirements outline the testing and retesting methods and procedures, permitted variations in dimensions, and mass, quality and repair of defects, marking, loading, and ordering information.~~

~~3.2 In addition to the basic requirements of this specification, certain supplementary requirements are available when additional control, testing, or examination is required to meet end use requirements.~~

~~3.3 If the requirements of this specification are in conflict with the requirements of Specification A20/A20M also establishes the rules for the ordering information which should be complied with when purchasing material to this specification.~~

~~3.3 In addition to the basic requirements of this specification, certain supplementary requirements are available when additional control, testing, or examination is required to meet end use requirements. These include:~~

~~3.3.1 Vacuum treatment;~~

~~3.3.2 Additional or special tension testing;~~

~~3.3.3 Impact testing; and~~

~~3.3.4 Nondestructive examination.~~

~~3.4 The purchaser is referred to the listed supplementary requirements in this specification and to the detailed requirements in Specification A20/A20M.~~

~~3.5 If the requirements of this specification are in conflict with the requirements of Specification A20/A20M, the requirements of this specification shall prevail.~~

4. Manufacture

4.1 *Steelmaking Practice*—The steel shall be killed.

¹ This specification is under the jurisdiction of ASTM Committee A01 on Steel, Stainless Steel and Related Alloys and is the direct responsibility of Subcommittee A01.11 on Steel Plates for Boilers and Pressure Vessels.

Current edition approved March 1, 2006. Published March 2006. Originally approved in 1966. Last previous edition approved in 2001 as A562/A562M-90 (2001). DOI: 10.1520/A0562_A0562M-06.

Current edition approved Oct. 1, 2010. Published November 2010. Originally approved in 1966. Last previous edition approved in 2006 as A562/A562M-06. DOI: 10.1520/A0562_A0562M-10.

² For ASME Boiler and Pressure Vessel Code applications, see related Specification SA-562/SA-562M in Section II of that Code.

³ 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.

*A Summary of Changes section appears at the end of this standard.