

TABLE 56.50-105—ACCEPTABLE MATERIALS AND TOUGHNESS TEST CRITERIA²—Continued

Product form	ASTM specification ³	Grade ⁴	Minimum service temperature	Minimum avg Charpy V notch energy
Bolting	A-320	L7, L9, L10, L43	- 150 °F	20 ft. lb.
		B8D, B8T, B8F, B8M ...	- 325 °F	No test required.
		2B8, B8C	No limit	No test required, except for service temperatures colder than - 425 °F. In such case the minimum average energy is 25 ft. lb.
Nuts, bolting	A-194	4	- 150 °F	20 ft. lb.
		8T, 8F	- 325 °F	No test required.
		8, 8C	No limit	Same requirement as comparable grades (B8, B8C) of bolting listed above.

¹ Quench and temper heat treatment may be permitted when specifically authorized by the Commandant. In those cases the minimum average Charpy V-notch energy shall be specially designated by the Commandant.
² Other material specifications for product forms acceptable under part 54 for use at low temperatures may also be used for piping systems provided the applicable toughness requirements of this Table are also met.
³ Any repair method must be acceptable to the Commandant (G-MSE), and welding repairs as well as fabrication welding must be in accordance with part 57 of this chapter.
⁴ The acceptability of several alloys for low temperature service is not intended to suggest acceptable resistance to marine corrosion. The selection of alloys for any particular shipboard location must take corrosion resistance into account and be approved by the Marine Safety Center.

[CGFR 68-82, 33 FR 18843, Dec. 18, 1968, as amended by CGFR 72-59R, 37 FR 6189, 6190, Mar. 25, 1972; CGD 73-254, 40 FR 40165, Sept. 2, 1975; CG 79-108, 43 FR 46545, Oct. 10, 1978; CGD 74-289, 44 FR 26008, May 3, 1979; CGD 77-140, 54 FR 40611, Oct. 2, 1989; CGD 83-043, 60 FR 24775, May 10, 1995; USCG-2000-7790, 65 FR 58460, Sept. 29, 2000]

§ 56.50-110 Diving support systems.

(a) In addition to the requirements of this part, piping for diving installations which is permanently installed on the vessel must meet the requirements of subpart B (Commercial Diving Operations) of part 197 of this chapter.

(b) Piping for diving installations which is not permanently installed on the vessel need not meet the requirements of this part, but must meet the requirements of subpart B of part 197 of this chapter.

(c) Piping internal to a pressure vessel for human occupancy (PVHO) need not meet the requirements of this part, but must meet the requirements of subpart B of part 197 of this chapter.

[CGD 76-009, 43 FR 53683, Nov. 16, 1978]

Subpart 56.60—Materials

§ 56.60-1 Acceptable materials and specifications (replaces 123 and Table 126.1 in ANSI-B31.1).

(a)(1) The material requirements in this subpart shall be followed in lieu of those in 123 in ANSI-B31.1.

(2) Materials used in piping systems must be selected from the specifications which appear in Table 56.60-1(a) of this section or Table 56.60-2(a) of this part, or they may be selected from the material specifications of section I, III, or VIII of the ASME Code if not prohibited by a regulation of this subchapter dealing with the particular section of the ASME Code. Table 56.60-1(a) of this section contains only pipe, tubing, and fitting specifications. Determination of acceptability of plate, forgings, bolting, nuts, and castings may be made by reference to the ASME Code as previously described. Additionally, accepted materials for use as piping system components appear in Table 56.60-2(a) of this part. Materials conforming to specifications not described in this subparagraph must receive the specific approval of the Marine Safety Center before being used. Materials listed in Table 126.1 of ANSI B31.1 are not accepted unless specifically permitted by this paragraph.

(b) Components made in accordance with the commercial standards listed in Table 56.60-1(b) of this section and made of materials complying with paragraph (a) this section may be used