

specimen, at minus 50 °F or colder, in accordance with ASTM A 370 (IBR, see § 171.7 of this subchapter).

(iii) * * *

(A) Be prepared in accordance with AAR Specifications for Tank Cars, appendix W, W4.00 (IBR, see § 171.7 of this subchapter);

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■ 171. In § 179.103–5, the first two sentences in paragraph (b)(1) are revised to read as follows:

§ 179.103–5 Bottom outlets.

* * * * *

(b) * * *

(1) The extreme projection of the bottom outlet equipment may not be more than allowed by appendix E of the AAR Specifications for Tank Cars (IBR, see § 171.7 of this subchapter). All bottom outlet reducers and closures and their attachments shall be secured to the car by at least 3/8 inch chain, or its equivalent, except that bottom outlet closure plugs may be attached by 1/4 inch chain. * * *

■ 172. In § 179.200–7, the table in paragraph (b), paragraph (c) introductory text, footnote 2 of paragraph (d) introductory text, the table in paragraph (e), paragraph (f) introductory text, and paragraph (h) are revised to read as follows:

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§ 179.200–7 Materials.

* * * * *

(b) * * *

Specifications	Minimum tensile strength (p.s.i.) welded condition ¹	Minimum elongation in 2 inches (percent) weld metal (longitudinal)
AAR TC 128, Gr. B	81,000	19
ASTM A 516 ²	70,000	20

¹ Minimum stresses to be used in calculations.

² This specification is incorporated by reference (IBR, see § 171.7 of this subchapter).

(c) *Aluminum alloy plate*: Aluminum alloy plate must be suitable for welding and comply with one of the following specifications (IBR, see § 171.7 of this subchapter):

* * * * *

² High alloy steel materials used to fabricate tank and expansion dome, when used, must be tested in accordance with Practice A of ASTM Specification A 262 titled, “Standard Practices for Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels” (IBR; see § 171.7

of this subchapter). If the specimen does not pass Practice A, Practice B or C must be used and the corrosion rates may not exceed the following:

* * * * *

(e) *Nickel plate*: * * *

Specifications	Minimum tensile strength (psi) welded condition ¹	Minimum elongation in 2 inches (percent) weld metal (longitudinal)
ASTM B 162 ²	40,000	20

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(f) *Manganese-molybdenum steel plate*: Manganese-molybdenum steel plate must be suitable for fusion welding and comply with the following specification (IBR, see § 171.7 of this subchapter): * * *

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(h) All external projections that may be in contact with the lading and all castings, forgings, or fabrications used for fittings or attachments to tank and expansion dome, when used, in contact with lading must be made of material to an approved specification. See AAR Specifications for Tank Cars, appendix M, M4.05 (IBR, see § 171.7 of this subchapter) for approved material specifications for castings for fittings.

■ 173. In § 179.200–9, paragraph (a) is revised to read as follows:

§ 179.200–9 Compartment tanks.

(a) When a tank is divided into compartments, by inserting interior

heads, interior heads must be inserted in accordance with AAR Specifications for Tank Cars, appendix E, E7.00 (IBR, see § 171.7 of this subchapter), and must comply with the requirements specified in § 179.201–1. Voids between compartment heads must be provided with at least one tapped drain hole at their lowest point, and a tapped hole at the top of the tank. The top hole must be closed, and the bottom hole may be closed, with not less than three-fourths inch and not more than 1½-inch solid pipe plugs having NPT threads.

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■ 174. In § 179.200–10, paragraph (a) is revised to read as follows:

§ 179.200–10 Welding.

(a) All joints shall be fusion-welded in compliance with the requirements of AAR Specifications for Tank Cars, appendix W (IBR, see § 171.7 of this subchapter). Welding procedures,

welders and fabricators shall be approved.

■ 175. Section 179.200–11 is revised to read as follows:

§ 179.200–11 Postweld heat treatment.

When specified in § 179.201–1, after welding is complete, postweld heat treatment must be in compliance with the requirements of AAR Specifications for Tank Cars, appendix W (IBR, see § 171.7 of this subchapter).

■ 176. In § 179.200–13, paragraph (a) is revised to read as follows:

§ 179.200–13 Manway ring or flange, pressure relief device flange, bottom outlet nozzle flange, bottom washout nozzle flange and other attachments and openings.

(a) These attachments shall be fusion welded to the tank and reinforced in an approved manner in compliance with the requirements of appendix E, figure 10, of the AAR Specifications for Tank