

the metal used in the body. The marked nominal thickness must not exceed the minimum thickness of the steel used by more than the thickness tolerance stated in ISO 3574 (IBR, see § 171.7 of this subchapter). (See appendix C of this part.) The unit of measure is not required to be marked. When the nominal thickness of either head of a metal drum is thinner than that of the body, the nominal thickness of the top head, body, and bottom head must be marked (e.g., "1.0–1.2–1.0" or "0.9–1.0–1.0").

* * * * *

■ 144. In § 178.516, paragraph (b)(1) is revised to read as follows:

§ 178.516 Standards for fiberboard boxes.

* * * * *

(b) * * *

(1) Strong, solid or double-faced corrugated fiberboard (single or multi-wall) must be used, appropriate to the capacity and intended use of the box. The water resistance of the outer surface must be such that the increase in mass, as determined in a test carried out over a period of 30 minutes by the Cobb method of determining water absorption, is not greater than 155 g per square meter (0.0316 pounds per square foot)—see ISO 535 (IBR, see § 171.7 of this subchapter). Fiberboard must have proper bending qualities. Fiberboard must be cut, creased without cutting through any thickness of fiberboard, and slotted so as to permit assembly without cracking, surface breaks, or undue bending. The fluting of corrugated fiberboard must be firmly glued to the facings.

* * * * *

■ 145. In § 178.601, paragraph (g)(8) introductory text is revised to read as follows:

§ 178.601 General requirements.

(g) * * *

(8) For a steel drum with a capacity greater than 50 L (13 gallons) manufactured from low carbon, cold-rolled sheet steel meeting ASTM designations A 366/A 366M or A 568/A 568M variations in elements other than the following design elements are considered minor and do not constitute a different drum design type, or "different packaging" as defined in paragraph (c) of this section for which design qualification testing and periodic retesting are required. Minor variations authorized without further testing include changes in the identity of the supplier of component material made to the same specifications, or the original manufacturer of a DOT specification or UN standard drum to be

remanufactured. A change in any one or more of the following design elements constitutes a different drum design type:

* * * * *

■ 146. In § 178.707, paragraph (c)(4)(iv)(A) is revised to read as follows:

§ 178.707 Standards for composite IBCs.

* * * * *

(c) * * *

(4) * * *

(iv) * * *

(A) Water resistance of the outer surface must be such that the increase in mass, as determined in a test carried out over a period of 30 minutes by the Cobb method of determining water absorption, is not greater than 155 grams per square meter (0.0316 pounds per square foot)—see ISO 535 (E) (IBR, see § 171.7 of this subchapter). Fiberboard must have proper bending qualities. Fiberboard must be cut, creased without cutting through any thickness of fiberboard, and slotted so as to permit assembly without cracking, surface breaks, or undue bending. The fluting of corrugated fiberboard must be firmly glued to the facings.

* * * * *

■ 147. In § 178.708, paragraphs (c)(2) introductory text and (c)(2)(i) are revised to read as follows:

§ 178.708 Standards for fiberboard IBCs.

* * * * *

(c) * * *

(2) Fiberboard IBCs must be constructed of strong, solid or double-faced corrugated fiberboard (single or multiwall) that is appropriate to the capacity of the outer packaging and its intended use. Water resistance of the outer surface must be such that the increase in mass, as determined in a test carried out over a period of 30 minutes by the Cobb method of determining water absorption, is not greater than 155 grams per square meter (0.0316 pounds per square foot)—see ISO 535 (E) (IBR, see § 171.7 of this subchapter). Fiberboard must have proper bending qualities. Fiberboard must be cut, creased without cutting through any thickness of fiberboard, and slotted so as to permit assembly without cracking, surface breaks, or undue bending. The fluting of corrugated fiberboard must be firmly glued to the facings.

(i) The walls, including top and bottom, must have a minimum puncture resistance of 15 Joules (11 foot-pounds of energy) measured according to ISO 3036 (IBR, see § 171.7 of this subchapter).

* * * * *

■ 148. In § 178.801, paragraph (i) is revised to read as follows:

§ 178.801 General requirements.

* * * * *

(i) *Approval of equivalent packagings.* An IBC that differs from the standards in subpart N of this part, or that is tested using methods other than those specified in this subpart, may be used if approved by the Associate Administrator. Such IBCs must be shown to be equally effective, and testing methods used must be equivalent. A large packaging, as defined in § 171.8 of this subchapter, may be used if approved by the Associate Administrator. The large packaging must conform to the construction standards, performance testing and packaging marking requirements specified in the UN Recommendations (IBR, see § 171.7 of this subchapter).

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■ 149. In Appendix A to Part 178, footnote 2 in Table 1 is revised to read as follows:

Appendix A to Part 178—Specifications for Steel

* * * * *

Table 1 * * *

² Ferritic grain size 6 or finer according to ASTM E 112–96 (IBR, see § 171.7 of this subchapter).

* * * * *

■ 150. In Appendix C to Part 178, the introductory paragraph is revised to read as follows:

Appendix C to Part 178—Nominal and Minimal Thicknesses of Steel Drums and Jerricans

For each listed packaging capacity, the following table compares the ISO 3574 (IBR, see § 171.7 of this subchapter) nominal thickness with the corresponding ISO 3574 minimum thickness.

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PART 179—SPECIFICATIONS FOR TANK CARS

■ The authority citation for part 179 continues to read as follows:

Authority: 49 U.S.C. 5101–5127; 49 CFR 1.53.

PART 179—[AMENDED]

■ 151. In Part 179 amend the following sections by removing the parenthetical phrase "(incorporated by reference; see § 171.7 of this subchapter)" and adding the parenthetical phrase "(IBR, see § 171.7 of this subchapter)" in each of the following places:

179.100–10(c)

179.102–4(a)(1)

179.102–17(b)(1)