§ 178.819 Vibration test.

(a) General. The vibration test must be conducted for the qualification of all rigid IBC design types. Flexible IBC design types must be capable of withstanding the vibration test.

(b) Test method. (1) A sample IBC, selected at random, must be filled and closed as for shipment. IBCs intended for liquids may be tested using water as the filling material for the vibration test.

(2) The sample IBC must be placed on a vibrating platform with a vertical or rotary double-amplitude (peak-to-peak displacement) of one inch. The IBC must be constrained horizontally to prevent it from falling off the platform, but must be left free to move vertically and bounce.

(3) The test must be performed for one hour at a frequency that causes the package to be raised from the vibrating platform to such a degree that a piece of material of approximately 1.6-mm (0.063-inch) thickness (such as steel strapping or paperboard) can be passed between the bottom of the IBC and the platform. Other methods at least equally effective may be used (see §178.801(1)).

(c) Criteria for passing the test. An IBC passes the vibration test if there is no rupture or leakage.


Subpart P—Large Packagings Standards

SOURCE: 75 FR 5397, Feb. 2, 2010, unless otherwise noted.

§ 178.900 Purpose and scope.

(a) This subpart prescribes requirements for Large Packaging intended for the transportation of hazardous materials. Standards for these packagings are based on the UN Recommendations.

(b) Terms used in this subpart are defined in §171.8 of this subchapter.

§ 178.905 Large Packaging identification codes.

Large packaging code designations consist of: two numerals specified in paragraph (a) of this section; followed by the capital letter(s) specified in paragraph (b) of this section.

(a) Large packaging code number designations are as follows: 50 for rigid Large Packagings; or 51 for flexible Large Packagings.

(b) Large Packagings code letter designations are as follows:

1. “A” means steel (all types and surface treatments).
5. “F” means reconstituted wood.
6. “G” means fiberboard.
7. “H” means plastic.
8. “M” means paper, multiwall.
9. “N” means metal (other than steel or aluminum).

§ 178.910 Marking of Large Packagings.

(a) The manufacturer must:

1. Mark every Large Packaging in a durable and clearly visible manner. The marking may be applied in a single line or in multiple lines provided the correct sequence is followed with the information required by this section.

2. Mark every Large Packaging with a marking that consists of: (1) The manufacturer’s name or trademark. (2) The name or designation of theiy packaging and the letter(s) specified in §178.905.

3. Mark every Large Packaging with date of manufacture.

4. Mark every Large Packaging with the following data:

(a) Gross weight of the package as it is loaded.

(b) Gross internal volume of the package as it is loaded.

5. Mark every Large Packaging with the following symbols:

(a) A known hazard symbol (see §172.101).

(b) A main hazard symbol (see §172.105).

(c) A secondary hazard symbol (see §172.107).

(d) A hazard symbol for physical hazard (see §172.106).

6. Mark every Large Packaging with the following identification numbers:

(a) The identification number of the packaging.

(b) The identification number of the intermediate bulk container if it is required to be marked.

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