

JIS

JAPANESE INDUSTRIAL STANDARD

Performance test method for bodies of insulated or refrigerated vehicles

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Performance test method for bodies
of insulated or refrigerated vehicles

D 1701-1995

1. Scope This Japanese Industrial Standard specifies the test methods for performance related to the bodies of insulated or refrigerated vehicles which transport the goods at a fixed temperature (hereafter referred to as "body").

Remarks 1. The following standard is cited in this Standard:

JIS C 1102 Electrical indicating instruments

2. The units and numerical values given in { } in this Standard are based on the traditional unit system and appended for informative reference.

2. Classification of test The tests are classified into insulation performance test and air tightness test.

Insulation performance test shall be carried out by internal cooling method or internal heating method and air tightness test shall be carried out by internal pressurization method or internal pressure reduction method.

3. Test conditions

3.1 Test conditions for insulation performance test

3.1.1 General conditions General conditions shall be as follows:

- (1) The test site shall be an indoor place where there is no influence of direct sunlight or various kinds of heat sources, and the dispersion of ambient temperature during measurements is within 3°C, or a place of at least equivalent conditions thereto.
- (2) Preheating or precooling of the body shall be continued until the internal temperature of the body becomes stable.
- (3) The difference of internal temperature and external temperature of the body shall be 20°C or more.
- (4) Measurements for calculation of heating value shall be carried out every 30 minutes after finishing preheating or precooling of the body.
- (5) The measured temperatures shall be expressed by the mean value on every measuring points outside of body and that on every measuring points inside of body at one measuring time.
- (6) Temperature to be used for calculation of heating value shall be the mean value of the values measured five times continuously where the change in measured temperature is within the range of 2°C.
- (7) The heat supply source shall be constant during the measuring time.
- (8) An electric fan or the like shall be used for stirring up so that the internal temperature of the body is made uniform.

3.1.2 Body condition Drain outlet of the body shall be in a state of no air passing during the test.