



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 19457-2009

Replacing GB 19457.2-2004

**Safety code for inspection of packaging of dangerous goods for
paint**

危险货物涂料包装检验安全规范

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Foreword

The standard Chapter 4, Chapter 5 are mandatory, the rest are recommended. This standard replaces GB 19457.1-2004 "dangerous goods packaging coatings Safety code for inspection performance test", GB 19457.2-2004 "Dangerous Goods Safety code for inspection of packaging coatings Use appraisal." This standard is mainly to modify the contents of the above criteria.

--- On the part of the technical content has been modified to make technical and content standards related to the packaging of the United Nations "Recommendations on the Transport of Dangerous Goods Model Regulations "(Rev. 15) and the International Maritime Organization (IMO)" International Maritime Dangerous Goods Code "(2006 edition) technology Exactly the same content;

--- On a standard text format according to GB/T 1.1-2000 made editorial changes. This standard is managed by the National Standardization Technical Committee chemicals dangerous (SAC/TC251) and focal points. This standard is drafted by: Tianjin CIQ.

Participated in the drafting of this standard. Hunan CIQ. The main drafters of this standard. Wangli Bing, Lining Tao, Chi Yu Feng, Zhao Qing, Zhang Yuan, Lei Zhou. This standard replaces the standards previously issued as follows:

--- GB 19457.1-2004;

--- GB 19457.2-2004. Dangerous Goods Safety code for inspection of packaging coatings

0.8

b) if the water instead of the test.

--- Such as paint to be transported relative density of less than or equal to

1.2 when its drop height Table 3; Table 4 is calculated, rounded to one decimal place. Table 4 drop height and density conversion table in meters I II grade packaging Packing III grade packaging

4.2.4.6 airtight test 4.2.4.6.1 Test equipment and methods According to GB/T 17344 requirements of. 4.2.4.6.2 The test pressure Test pressure Table 5. Table 5 test pressure (gauge pressure) in units of kPa I II grade packaging Packing III grade packaging

4.2.4.7 Hydraulic pressure test 4.2.4.7.1 Test Equipment Hydraulic test machine packaging of dangerous goods or other test equipment to achieve the same effect. 4.2.4.7.2 The test pressure (gauge pressure) Press one of the following three methods.

a) the temperature measured at 55 °C packages total gauge pressure (ie pressure containing substance together with air or inert gas pressure minus 100kPa) 100kPa. 100kPa. among them. Vp P50

--- 50 °C vapor pressure of the cargo; Vp P55

--- 55 °C vapor pressure of the cargo.

d) where the test pressure packagings intended packaging container I grade liquid dangerous goods is 250kPa. 4.2.4.7.3 Test Method Start packing dangerous hydraulic test machine, the package to impose a uniform continuous hydraulic pressure while opening the exhaust valve, remove the residual gas in the test chamber Body, and then close the vent valve. Container including their closure, shall be subjected to a predetermined constant hydraulic pressure (gauge pressure) 5min.

4.2.4.8 Stacking test 4.2.4.8.1 Test Equipment According to GB/T 4857.3 requirements.

4.2.4.8.2 Test Method Packaging container stacking time of 24h. Other test methods according to GB/T 4857.3 requirements. 4.2.4.8.3 Stacking load Where. P

--- load of load in kilograms (kg); K

--- deterioration coefficient, K is 1; H

--- stacking height (less than 3m);

4.2.4.9 beam lifting, lifting loop strength test The Ti Liang, bail fixed by an appropriate method, and then add the load 590N barrel body in the vertical direction, and keep 5min.

1 Scope

GB 19457-2009 is the Chinese national standard on safety code for inspection of packaging of dangerous goods for paint. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 21 June 2009 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 May 2010. Classification: ICS , CCS A80. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the use of performance testing and identification of dangerous goods packaging coatings. This standard applies to testing and identification of dangerous goods packaging coatings.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 325-2000 packaging container drums

GB/T 2828.1 Sampling procedures for inspection - Part 1. by acceptance quality limit (AQL) retrieval batch inspection sampling plan

GB/T 4857.3 Basic tests for transport packages - Part 3. Test methods for stacking static load

GB/T 4857.5-1992 Packaging transport package drop test methods

GB/T 13040 metal container packaging terminology

GB/T 13252 containers steel pail

GB/T 17344 Test Method for airtight packaging containers

GB 19432 Bulk Dangerous Goods Safety code for inspection

GB 19433 inspection of packaging of dangerous goods by air safety norms

GB 19434 safety inspection of dangerous goods specification intermediate bulk containers

GB 19434.5 dangerous goods metal IBCs performance test safety norms

GB 19434.6 composite intermediate bulk containers of dangerous goods safety performance test specification

GB 19434.8 dangerous goods rigid plastics intermediate bulk containers performance test safety norms

3 Ti Liang, bails strength test 3

4.2.4.3 test sample preparation 4.2.4.3.1 contents Paint samples containing not less than 98% of its capacity. The contents of the sample can be physical properties was intended to contain the same substance Instead. With substitutes such as drop test, then substitute the relative density and viscosity shall be transported substance similar. You can also press Conditions 6.4.5.3b) required by the water drop test. Sample preparation 4.2.4.3.2 tightness test, hydraulic pressure test At the top of the packaging container bore, connected to the inlet and exhaust pipes, or connect the intake pipe. Has a vent to the closure should not be replaced Breathable closed or blocked vent.

4.2.4.4 structure size and appearance Testing and measuring tools and visual methods.

4.2.4.5 Drop test 4.2.4.5.1 Test Equipment In line with GB/T 4857.5-1992 requirements of Chapter 2 in the test equipment. 4.2.4.5.2 Test Method 4.2.4.5.2.1 drop in test methods according to GB 19433 requirements. 4.2.4.5.2.2 containing thick coating of steel pails opening drop site proceed as follows:

- a) The first three samples were dropped against the weak parts of the bottom corner drop;
- b) The second drop three samples were dropped at the end of the plane;
- c) Other requirements see when the drop test GB/T 4857.5. 4.2.4.5.3 Drop height
 - a) if the use of packagings intended to use paint or other substances having substantially the same physical properties were tested, the drop height in Table 3. Table

4.1 Requirements

4.1.1 Packaging coating composition into the packaging, single packaging (except steel pails), intermediate bulk containers, large packaging and steel pails.

4.1.2 paint packaging combination packaging, single packaging (except steel pails) shall comply with the requirements of the relevant requirements of Appendix A of GB 19433.

4.1.3 vapor pressure at 50 °C less than or equal to 110kPa or less than or equal to 55 °C when the coating allows the use of the following 130kPa IBC shipment.