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CCS A 80



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

GB 19457.1-2004

Replacing GB 19457.1-2004; GB 19457.2-2004

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

(English Translation)

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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.

1 Scope

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 Terms and Definitions

GB/T 325, GB 13040 and GB 19433 and established the following terms and definitions apply to this standard.

Plus a metal handle drums, there are two kinds of open and closed.

Viscosity at 23 °C more than 200mm²/s paint.

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.

- Metal (31A, 31B and 31N) (only grade II or III grade packaging);
- Rigid plastics (31H1 and 31H2) (only grade II or III grade packaging);
- Composite (31HZ1) (only grade II or III grade packaging);
- Compound (31HA2,31HB2,31HN2,31HD2 and 31HH2) (limited to III grade packaging).

Paint Packaging IBC shall comply with GB 19434 and GB 19434.5, GB 19434.6, GB 19434.8 of the relevant requirements.

4.1.4

Bulk coating shall comply with the relevant requirements of GB 19432.

4.1.5

paint pail packaging steel structure size should be consistent with the provisions of GB/T 13252 of. Steel barrel mention, the outer surface smooth, round, no rust, Curling uniform, no wrinkles, no glitches, no iron tongue. Smooth weld uniform, no tumor melting, welding slag. Paint color uniform, no obvious discoloration, sagging, from Bubbles and other defects.

4.1.6

steel pails paint packaging inks and coatings should be strong adhesion, good weather resistance, the film adhesion should meet GB/T 325-2000 Level 2 above specified in Appendix A2.

4.1.7

opening steel pails should not normally be used to hold a liquid paint. But by this standard inspection opening can be dressed steel pail packaging III grade sticky coating.

4.1.8 Performance requirements

a) a combination of packaging, single packaging (except steel pails), intermediate bulk containers and large packaging performance requirements should be consistent with GB 19433, GB 19434.5, GB 19434.6, GB 19434.8 and GB 19432 of the relevant requirements.

b) steel pails performance test are shown in Table 1.

Table 1 steel pail performance requirements

Performance test project requirements Stacking test All test package is not broken, do not collapse, no leakage Drop Test After the package drop, when external pressure (taken poke holes open or closure) is not reached after the leak balance, having an inner coating (plating) Container layer, coated (plated) layer must not have cracks, peeling Airtightness test package without leakage no leakage of hydraulic test package Ti Liang, strength test beam lifting bails, bails and barrel joints were not damaged

4.1.9 Without prejudice to paint transportation safety under the premise of allowing other equivalent packaging using. For packaging grade II and III grade packaging coatings Container, such as the number of loaded metal or plastic containers each less than or equal to 5L and transport under the following conditions may be exempt from this standard of performance test.

--- Packed in palletized shipments, containers or unit load devices, such as individual container is placed or stacked on pallets and Wrap, Shrink wrapping, stretch-wrapping or other suitable means of fastening. For shipping, palletized shipments, containers or unit load devices shall Firmly packed in closed cargo transport units and be fastened;

--- As the largest net weight of 40kg container combination packagings.

4.2 Test

4.2.1

The coating composition of packaging, single packaging (except steel pails) according to GB 19433 requirements.

4.2.2

IBC packaging coatings by GB 19434.5, GB 19434.6, GB 19434.8 of the requirements.

4.2.3

Bulk coating according to the requirements of GB 19432.

4.2.4 Paint pail packaging steel test

4.2.4.1

Test items are shown in Table 2.

4.2.4.2

Number of Samples. number of samples of different test items in Table 2, in the case does not affect the test results, allows to reduce the number of samples the amount of a sample at the same time a number of tests.

Table 2 pilot projects and the number of sampling units member

Pilot project the number of samples Stacking test 3 Drop test 6 Airtight test 3 Hydraulic Test