

SJ

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

SJ/T 11723-2018

Electrolyte solution used for lithium ion battery

锂离子电池用电解液

(English Translation)

Issued on: July 7, 2009

Implemented on: January 16, 2010

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China**

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Foreword

SN/T 0370 "Rules for the inspection of packaging for export dangerous goods" includes the following three parts.

- Part 1.General specifications;
- Part 2.Performance test;
- Part 3.Use appraisal.

This Part is part 2 of SN/T 0370.

This Part integrates SN 0449.2-1995 "Rules for the inspection of packaging for export dangerous goods - Performance test", SN/T 0371-1995 "Rules for the inspection of packaging of dangerous goods for export by air - Performance test", and SN/T 0805.2-

1999 "Rules for the inspection of packaging for export dangerous goods - Performance

test"; modifies some technical contents; makes technical contents relevant to dangerous goods packaging to be consistent with "Recommendations on the Transport of Dangerous Goods - Model Regulations" issued by the United Nations (Version 15), "Rules for safe transport technology of dangerous goods by air" issued by International Civil Aviation Organization (Version 2009~2010), "International Maritime Dangerous Goods Code" issued by International Maritime Organization (Version 2008), and "Rules for dangerous goods of international railway transport" issued by European Rail Agency (Version 2009);

and introduces requirements relevant to dangerous goods packaging transport by road in the "European Agreement Concerning the International Carriage of Dangerous Goods by Road" issued by Economic Commission for Europe (Version 2009).

Annex A of this Part is Informative.

This Part was proposed by and shall be under the jurisdiction of China Certification Accreditation Supervision Committee.

Drafting organization of this Part. Jiangsu Entry-Exit Inspection and Quarantine Bureau of the PRC, and Shandong Entry-Exit Inspection and Quarantine Bureau of the PRC.

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The previous versions replaced by this Part are as follows.

- SN/T 0371-1995;
- SN 0449.2 -1995;
- SN/T 0805.2-1999.

Rules for the inspection of packaging for export
dangerous goods - Part 2.Performance test

1 Scope

This Part of SN/T 0370 specifies inspection requirements, inspection contents, and inspection regulations of packaging for export dangerous goods.

This Part applies to performance test of packaging for export dangerous goods with volume of less than 450L and net weight of less than 400kg.

This Part does not apply to inspection of packaging for air sprayer, gas container, radioactive substance and infectious substances of which the maximum working pressure is more than or equal to 0.1MPa; inner diameter is more than 0.15m; and volume is more than or equal to 0.025m³.

2 Normative references

The articles contained in the following documents have become part of this Part of SN/T

0370 when they are quoted herein. For the dated documents so quoted, all subsequent

modifications (including all corrections) or revisions made thereafter do not apply to this Part. However, the parties who reach an agreement according to this Part are encouraged to study whether the latest versions of these documents may be used. For the undated documents so quoted, the latest versions (including all modification sheets) apply to this Part.

GB/T 4857.3 Packaging - Basic tests for transport packages - Part 3. Stacking test methods using a static load

GB/T 4857.5 Packaging - Transport packages - Vertical impact test method by dropping

GB/T 17344 Packaging - Packing containers - Air-tight test method

GB/T 22410 Packaging - Transport packaging for dangerous goods - Plastics compatibility testing

SN/T 0370.1- 2009 Rules for the inspection of packaging for export dangerous goods - Part 1. General specifications

3.1.10 Except for air-transport, rescue containers shall be tested and marked in accordance with regulations which are applicable to intended solid transport or Class II packaging containers of inner containers, except for following cases.

- a) Test substance used in the test shall be water; and water in the container shall not be less than 98% of maximum capacity. In order to meet mass requirements of total packages, additional-weight is allowed, such as. lead granular bag, as long as it does not affect test results. During drop test, dropping height can be changed based on 4.1.4b);
- b) The container has passed leakage test of 30kPa, and test results are shown in the test report required 4.5;
- c) The container shall be marked with "T" as specified in 5.1.4 of SN/T 0370.1-2009.

3.2.1 For mass-produced packaging containers with same design-model, based on factory

inspection, randomly select samples from work site. For containers of which the quality level is prone to fluctuating, samples shall include the products of which the safety strength is the weakest.

3.2.2 Randomly selected samples shall have relevant marks and batch number of UN. The

number of samples shall meet requirements of normal inspection items, and one retention sample is added and preserved for half a year at least.

3.3.1 For prepared containers used for transport, including inner containers used by

composition container, conduct test in accordance with requirements of this Part. Liquid in the inner container, single container or container outside bag shall not be less than 98% of maximum capacity, and liquid shall not be less than 95% of maximum capacity. For composition container, if inner container is transported with liquid and solid, it is necessary to conduct tests for liquid contents and solid contents. Contents used during test may not necessarily be the substances or articles of actual transport, unless such arrangement will cause test results invalid. For solid, when using another substance to replace, the substance shall have the same physical properties with substance to be transported (such as. mass, particle size, etc.). In order to meet mass requirements of total packages, additional-weight is allowed, such as. lead granular bag, as long as it does not affect test results.

3.3.2 When drop test is conducted for container filled with liquid, if other substances are

used for replacement, the substance shall have relative density and relative viscosity similar to the substance to be transported. Water can also be used for drop test of liquid under conditions of 4.1.4.