

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

**SN/T 4125-2015**

---

**Technical requirements for the inspection of import and export  
of high voltage apparatus.High voltage insulators of porcelain  
(English Translation)**

**Issued on: February 9, 2015**

**Implemented on: September 1, 2015**

---

**Issued by: The General Administration of Quality Supervision, Inspection  
and Quarantine**

## Table of Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

### Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

### Introduction

At present, it involves national standards for import and export of porcelain insulator products, machinery industry standards, power industry standards, international electrical organization standards and several Foreign standards of major countries, focusing on type testing and testing one by one, some standards involve sampling inspection. As a it is necessary for the settlement inspection, and quarantine departments of both parties to supervise the quality of imported and exported porcelain insulators, and the batch products are organized by the production enterprises before leaving the factory.

For factory inspection, it is necessary to formulate technical requirements for porcelain insulators with wide applicability based on sampling inspection.

Import and export high-voltage porcelain insulator inspection technical requirements standards, is an important component of the import and export high-voltage electrical products inspection industry standard system it is one of the important basis for the implementation of factory inspection, delivery inspection and quality supervision of import and export high-voltage porcelain insulator products.

Inspection of high-voltage porcelain insulators for import and export, all types of products related to high-voltage porcelain insulators, scope of inspection technical requirements More extensive, this standard is based on the national standards of high-voltage porcelain insulators, international electrical organization standards, etc., comprehensive consideration of high-voltage porcelain insulators the technical requirements for sampling tests in the basic standards, line-type insulator standards, and power station electrical insulator standards are generally applicable to Technical requirements, sampling rules, test items, test methods and qualification criteria for all types of high-voltage porcelain insulator products are more suitable for entry and exit.

Inspection of high voltage porcelain insulators.

When using this standard, different tests may be adopted according to different insulator categories, special requirements for quality supervision, and trade agreement.

Test methods and technical requirements.

Import and export high-voltage electrical inspection technical requirements High voltage porcelain insulator

## 1 Scope

This standard stipulates the sampling rules, test items and tests for the sampling inspection of "High-voltage porcelain insulators for the inspection of high-voltage electrical appliances for import and export".

Test method and qualification criteria.

This standard is applicable to the sampling inspection of overhead power lines and power stations, electrical porcelain insulators or insulating parts with a nominal voltage higher than 1000V.

The high-voltage porcelain insulator products and their HS codes applicable to this standard (only applicable to the inspection of their porcelain insulator parts) are shown in Appendix A.

See Appendix B for testing items and technical requirements for high voltage porcelain insulator products in some countries.

Refer to Appendix C for the comparison of the technical requirements of this standard with the corresponding standard chapter number.

This standard does not apply to the sampling inspection of insulating sleeves with a nominal voltage higher than 1000V.

## 2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 775.1 Test methods for insulators - Part 1. General test methods GB/T 2900.8 Electrotechnical terminology insulator (IEC 60050-471:2007, IDT) GB/T 25318 Insulator string components Ball and socket connection locking pin size and test (IEC 60372:1984, IEC 60372/AM2).

2003, MOD)

JB/T 8177 Insulator metal accessories hot-dip galvanized layer general technical conditions

### 3 Terms and definitions

The following terms and definitions as defined in GB/T 2900.8 apply to this document.

Sampling test sample tests According to the sampling rules and the specified test items, the qualified products submitted by the manufacturer for inspection and acceptance shall be subject to the qualification test.

Inspection carried out.

Specified characteristic sepecifiedcharacteristic the value of the voltage or mechanical load specified in the relevant product standard, or any other characteristic value and any other agreement between the supplier and the purchaser Characteristic value.

Grinding surface roughness roughnessofgroundsurfaces the surface of the end surface of the polished ceramic has a small pitch and a small peak-to-valley unevenness, usually with a reference line arithmetic mean roughness (Ra) to assess.