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

DL/T 742-2019

**Quality standard of plastic parts for wet cooling tower
(English Translation)**

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Foreword

This standard is in accordance with the rules given in GB/T 1.1-2009 "Guidelines for Standardization Work Part 1: Standard Structure and Compilation" Drafting.

Please note that certain contents of this document may involve patents. The issuing agency of this document is not responsible for identifying these patents.

This standard replaces DL/T 742-2001 "Quality Standard for Plastic Parts of Wet Cooling Tower Cores", and compares with DL/T 742-2001 except the main technical changes besides editorial changes are as follows.

- Deleted the design, operation, and test related content that was duplicated with other industry standards in the original standard;

- Added the quality standard of the water-sprinkling filler bracket;

- Added the content of product quality inspection, acceptance, and quality standards, product packaging, marking, storage and transportation.

This standard was proposed by the China Electricity Council.

This standard is under the jurisdiction of the Power Plant Steam Turbine Standardization Committee.

Drafting organizations of this standard. Xi'an Thermal Power Research Institute Co., Ltd., Changzhou Jintan Plastic Factory.

1 Scope

This standard specifies the manufacturing, quality inspection, packaging, storage and transportation of wet cooling tower core plastic components.

The basic requirements.

This standard applies to polyvinyl chloride plastic film sprinkler fillers, water distribution pipes, water eliminators and wet cooling towers.

Splashing devices made of engineering plastics, fiber-reinforced plastic (glass reinforced

plastic) water-sprinkling filler brackets and other plastic parts.

2 Normative references

The clauses in the following documents have become clauses of this part after being quoted in this standard. All dated reference documents are attached all subsequent amendments (excluding errata content) or revised editions do not conform to this standard. However, it is encouraged to achieve the parties to the agreement study whether the latest versions of these documents can be used. For undated references, the latest version is suitable Used in this standard.

GB/T 1033.1 Determination of the density of plastic non-foam plastics Part 1: Immersion method, liquid pycnometer method and titration method GB/T 1040.1 Determination of tensile properties of plastics Part 1: General GB/T 1040.3 Determination of tensile properties of plastics Part 3: Test conditions for films and sheets GB/T 1633 Thermoplastics Determination of Vicat Softening Temperature (VST) GB/T 1843 Determination of impact strength of plastic cantilever beam GB/T 2406.1 Determination of Combustion Behavior of Plastics by Oxygen Index Method Part 1: Guidelines GB/T 2406.2 Determination of combustion behavior of plastics by oxygen index method Part 2: Room temperature test GB/T 2828.1 Sampling Inspection Procedures by Attributes Part 1: Batch-by-batch Inspection Sampling Retrieved by Acceptance Quality Limit (AQL) GB/T 4219.1 Industrial Hard Ethylene (PVC-U) Piping System Part 1: Pipes GB/T 6671 Thermoplastic pipe longitudinal shrinkage determination Determination of the Vicat softening temperature of GB/T 8802 thermoplastic pipes and fittings GB/T 8804.1 Thermoplastic pipe stretch performance determination Part 1: General test method GB/T 8804.2 Thermoplastic pipe stretch performance determination Part 2: Unplasticized polyvinyl chloride pipe (PVC-U), chlorinated Polyvinyl chloride (PVC-C) and high impact polyvinyl chloride (PVC-HI) pipes GB/T 8806 Plastic piping system plastic parts size determination GB/T 10002.1 Unplasticized polyvinyl chloride (PVC-U) pipes for water supply GB/T 1446 General Principles of Test Methods for Performance of Fiber Reinforced Plastics GB/T 1447 Test method for tensile properties of fiber reinforced plastics GB/T 1449 Test method for bending performance of fiber reinforced plastics GB/T 3854 Barcol (Barcol) hardness test method for fiber reinforced plastics QB/T 2803 Method for measuring bending of rigid plastic pipe QB/T 1130 Test method for right-angle tear performance of plastics DL/T 933 Cooling tower water spray filler, water remover, spray device performance test method

3 Terms and definitions

The following terms apply to this standard.

Poly vinyl chloride plastics (PVC) it is a material extruded with PVC resin and various additives.

Service life

Refers to the service life of the plastic parts in the cooling tower that can meet its technical and economic requirements under normal use conditions.

Flat packing chip

Flat plastic sheet used in thermoforming of plastic water filling filler, referred to as flat sheet.

Finished from packing chip After the flat sheet is formed by hot pressing, it has a certain shape or wave shape and water spray filler.

Assembly lump

A certain number of fillers are formed into a laminated block assembled by bonding or through rods, or a certain number of eliminator arcs are used to support A grid-shaped block connected by a tie rod between the plates.

Curved piece eliminators Curved sheet material extruded by plastic.

Stand of eliminators Used to support the components between the arcs of the eliminator.

Rod of eliminators

The plastic rod used to fix and connect the eliminator arc and the support plate.

Spray device

Water spray device, also called sprinkler. The cooling water can be sprayed into fine droplets.

3.10

Bracket

When the spray filler is placed in the cooling tower, it is used to support the frame of the spray filler.

3.11

Simple beam support

The supporting form in which the two ends of the assembly block rest on the strip support.

3.12

Trellis net support

The water spray packing adopts the support form of frame format support.

3.13

Suspension support