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

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Meteorological balloons

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules for Standardization Documents"

drafting.

This document is equivalent to ISO 17717.2017 "Specifications for Meteorological Balloons".

The following minimal editorial changes have been made to this document.

--- In order to coordinate with the existing standard system, change the name of the standard to "Weather Balloon".

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

1 Scope

This document specifies the minimum requirements for weather balloons and describes their test methods.

This document applies to weather balloons made of natural latex or a combination of natural latex and synthetic latex.

This document applies to the following two types of balloons.

--- Category 1. Weather balloons made by impregnation;

--- Category 2. Weather balloons made by the rotation method.

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references

For documents, only the version corresponding to the date is applicable to this document;

for undated reference documents, the latest version (including all amendments) is applicable to

this document.

Note. GB/T 528-2009 Determination of tensile stress-strain properties of vulcanized rubber or thermoplastic rubber (ISO 37.2005, IDT)

ISO 188 Hot air accelerated aging and heat resistance test of vulcanized rubber or thermoplastic rubber (Rubber, vulcanized or thermo-

Note. GB/T 3512-2014 vulcanized rubber or thermoplastic rubber hot air accelerated aging and heat resistance test (ISO 188.2011, IDT)

ISO 2859-1 Inspection procedures by count sampling - Part 1. Sampling plan for lot-by-lot inspection retrieved by acceptance quality limit (AQL)

Note. GB/T 2828.1-2012 Counting sampling inspection procedure Part 1. Batch-by-batch inspection sampling plan retrieved by acceptance quality limit (AQL) (ISO 2859-1.

1999, IDT)

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1

air bubble

There are thin spots locally with sharp edges on the skin.

3.2

ball thickness body thickness

The thickness of a balloon's single-layer skin.

3.3

crack cracking

Partial cracking of the balloon film.