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General requirements for super pressure balloon

超压气球通用要求

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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 is required.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

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General requirements for superpressure balloons

1 Scope

This document specifies the classification, technical requirements, test methods, marking, accompanying documents, packaging, transportation and storage of super pressure balloons.

This document applies to the development, production, and use of super-pressure balloons that use lighter-than-air gases such as helium and hydrogen as buoyancy gases.

2 Normative references

GB/T 191

GB/T 1038.1

GB/T 1040.3

GB 4962

GB/T 8834

GB/T 16422.2

GB/T 40134

GB/T 43328-2023

3 Terms and Definitions

The terms and definitions defined in GB/T 43328-2023 and the following apply to this document.

3.1 super pressure balloon

A free balloon in which the internal gas pressure of the balloon exceeds the external atmospheric pressure at the designed operating altitude.

Note. When there is no ambiguity, "superpressure balloon" is used to refer to "superpressure balloon system".

[Source. GB/T 43328-2023, 5.1.2, modified]

3.2 super pressure balloon platform super pressure balloon platform

The aerial platform portion of a superpressure balloon.

3.3 Pod gondola

Superpressure balloons are used to carry equipment and mission payloads.

[Source. GB/T 43328-2023, 6.2.2, modified]

3.4 mission payload

The superpressure balloon platform carries instruments, equipment, test organisms or test pieces to complete specific tasks.

Note. "Payload" is used to refer to "mission payload" when there is no ambiguity.