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

GB/T 47480-2026

Test methods for fluid systems clamps

流体系统管夹试验方法

(English Translation)

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Foreword

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

Drafting.

This document is modified to adopt ISO 9679:2006 "Test methods for clamps in aerospace fluid systems".

This document has undergone the following structural adjustments compared to ISO 9679:2006.

---Chapter 3 has been added;

---Chapters 4 through 6 correspond to Chapters 3 through 5 of ISO 9679:2006, respectively.

The technical differences between this document and ISO 9679:2006, and the reasons therefor, are as follows.

---The normatively referenced GB/T 7762-2014 replaces ISO 1431-1:2004 (see 5.2) to adapt to my country's technical conditions.

Provide operability;

---The normatively referenced GB/T 40720-2021 has replaced ISO 2951 (see 5.4) to adapt to my country's technical conditions and provide [relevant standards/standards].

Operability;

---The normatively referenced GB/T 16422.3-2022 has replaced ISO 4892-3 (see 5.5) to adapt to my country's technical conditions and improve [the quality of life].

Provide operability;

---The designation "TA18" replaces "Ti-3Al-2.5V" (see 5.6.2.1, 6.2.1), which better reflects the actual usage in my country;

---The use of "MPa" instead of "kPa" (see 5.6.2.3 and 6.3.2.4) is more in line with the actual usage in my country.

The following editorial changes have been made to this document.

---To align with existing standards, the standard name has been changed to "Test Methods for Pipe Clamps in Fluid Systems".

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed and is under the jurisdiction of the National Aircraft Standardization Technical Committee (SAC/TC435).

1 Scope

This document describes various types of pipe clamps used in aerospace fluid systems (including block clamps, P-clamps, baffle bushings, saddle clamps, etc.).

The test methods and procedures for (such as hoop) cover the test content of material properties and conduit support component performance.

This document is applicable to the qualification, acceptance, and performance comparison of pipe clamps in aerospace fluid systems, providing design verification and quality control for pipe clamps.

Unified experimental basis.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies.

This document.

GB/T 7762-2014 Static tensile test for ozone cracking resistance of vulcanized rubber or thermoplastic rubber (ISO 1431-1:2004) NEQ) GB/T 16422.3-2022 Plastics - Laboratory Light Source Exposure Tests - Part 3: Fluorescent Ultraviolet Lamps (ISO 4892-3.

2016, IDT)

GB/T 40720-2021 Determination of the insulating resistivity of vulcanized rubber (ISO 2951:2019, IDT)

3 Terms and Definitions

This document does not contain any terms or definitions that need to be defined.

4.1 Experimental Objective

The tests described in this document are for device qualification purposes only and do not constitute approval for the use case, installation method, or process. All tested devices...

All should conform to applicable part standards or design guidelines.

4.2 Test Conditions

Unless otherwise specified, all tests should be conducted at room temperature ($25^{\circ}\text{C} \pm 10^{\circ}\text{C}$).

5.1 General Requirements

All parts and materials used must meet the requirements of relevant standards.

Furthermore, the following tests may be specified in standards, procurement specifications, or contracts.

5.2 Ozone resistance test

All vulcanized or thermoplastic nonmetallic materials, when tested according to Chapter 5 of GB/T 7762-2014, should have an ozone volume fraction of [missing information].