

ICS 49.080
CCS V 13



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

GB/T 47482-2026

**Aerospace - 21 MPa polytetrafluoroethylene (PTFE) hose
assemblies general requirements**

航空航天 21MPa聚四氟乙烯 (PTFE) 软管组件通用要求
(English Translation)

Issued on: April 30, 2026

Implemented on: November 1, 2026

Issued by: State Administration for Market Regulation

Table of Contents

Preface
1 Scope
2 Normative References
3 Terms and Definitions
4 Technical Requirements
5 Inspection Requirements
6 Delivery Preparation
Appendix A (Informative) Equivalent Component
References

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 9528:2022 "Aerospace - PTFE hoses at 204°C/21000kPa standard weight".

Component Procurement Specifications.

This document has undergone the following structural adjustments compared to ISO 9528:2022.

---Removed section 4.1 from ISO 9528:2022;

---4.1 to 4.10 correspond to 4.2 to 4.11 in ISO 9528:2022, respectively;

---Removed 5.1 from ISO 9528:2022;

---5.1 to 5.5 correspond to 5.2 to 5.6 in ISO 9528:2022, respectively;

---Chapter 7 of ISO 9528:2022 has been removed.

The technical differences between this document and ISO 9256:2022, and the reasons therefor, are as follows.

---The MIL standard-related information referenced in Table 1 of ISO 9256:2022 has been removed to accommodate domestic applications;

---The requirement clause in section 4.1 of ISO 9256:2022 has been deleted, and the

content that is not applicable to this document has been moved to Chapter 1 to adapt to...

Domestic application status;

---Replace ISO 5855-3 with the normatively referenced GB/T 43924.3 (see 4.6) to adapt to my country's technical conditions and provide operable standards.

Actual nature;

---The technical clauses related to inspection responsibilities in section 5.1 of ISO 9256:2022 have been deleted to adapt to domestic application conditions;

---Replace ISO 2859-1 with the normatively referenced GB/T 2828.1 (see 5.3.1, 5.3.6) to adapt to my country's technical conditions and provide...

Operability;

---Chapter 7 "Ordering Data" and related content concerning procurement in ISO 9256:2022 have been removed, making it more consistent with the standard name and domestic standards.

Actual usage.

The following editorial changes have been made to this document.

---To harmonize with existing standards, the standard name has been changed to "General Purpose 21MPa Polytetrafluoroethylene (PTFE) Hose Assemblies for Aerospace".

Require".

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 specifies the technical requirements for 21MPa polytetrafluoroethylene (PTFE) hose assemblies used in hydraulic and pneumatic systems in the aerospace field.

It includes the structure, materials, and performance, describes the test methods, and specifies the inspection requirements and delivery preparation.

This document applies to the manufacture of hydraulic system hose assemblies with an operating temperature of -55°C to 204°C and an operating pressure not exceeding 21MPa.

For testing and inspection. Refer to the pneumatic system that allows gas diffusion through the inner tube for reference.

This document does not apply to high-pressure pneumatic storage systems, or systems

exceeding the limits specified in this document or not explicitly covered by this document (such as oxygen storage systems).

Manufacturing and inspection of (for use).

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 2828.1 Sampling Procedures for Inspection by Attributes - Part 1: Sampling Schemes Retrieved by Acceptable Quality Limit (AQL) for Lot-by-Lot Inspection (GB/T 2828.1-2012, ISO 2859-1:1999, IDT) GB/T 43924.3 Aerospace MJ Threads Part 3: Limiting Dimensions of Threads for Fluid System Piping Fittings (GB/T 43924.3-2021, ISO 5855-3:1999, MOD) ISO 2685 Aircraft-Airborne Equipment Environmental Testing Procedures - Fire resistance in specified fire zones ISO 7258 Method for determination of density and relative density of polytetrafluoroethylene (PTFE) tubes for aerospace applications.

density]

ISO 8829-1:2009 Aerospace-grade polytetrafluoroethylene (PTFE) inner tubing hose assemblies - Test methods - Part 1: Metals (stainless steel)

3 Terms and Definitions

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

4.1 Qualification Assessment

The hose assemblies supplied in accordance with this document shall be products that have passed the requirements and tests specified in this document.