

ICS 49.080
CCS V 29



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

GB/T 48247-2026

**Aerospace fluid systems - Piping and fittings - Thermal shock
testing procedure**

航空航天流体系统 管路和接头 温度冲击试验程序

(English Translation)

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Foreword

GB/T 48247-2026 is a recommended national standard (GB/T) of the People's Republic of China, issued on 28 September 2026 by the State Administration for Market Regulation and the Standardization Administration of China, with effect from 1 April 2027.

The document adopts an international standard (ISO or IEC).

It is under the responsibility of the Standardization Administration of China.

Classification: ICS 49.080; CCS V 29.

1 Scope

This standard describes a thermal shock testing procedure for piping and fittings used in aerospace fluid systems. Thermal shock testing examines how tubing and connectors respond when they are exposed to rapid changes in temperature, which matters for lines that carry fluids through aircraft and spacecraft. It is relevant to manufacturers of tubes, couplings and fittings, to aerospace systems engineers, and to test laboratories and quality teams that qualify these parts.

It adopts an international standard. It was issued on 28 September 2026 and takes effect on 1 April 2027. As a recommended national standard it is used by agreement or through citation in a specification. Buyers and suppliers can use it to describe the test procedure in a common way when qualifying fluid line components for Chinese aerospace projects. Because a single procedure can be cited in purchase orders and qualification plans, results from different suppliers and laboratories become easier to compare, which reduces repeated testing during programme approval.