
**Aerospace — Clamps for fluid systems —
Test methods**

*Aéronautique et espace — Colliers pour systèmes de fluides —
Méthodes d'essai*



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Aerospace — Clamps for fluid systems — Test methods

1 Scope

This International Standard specifies the test methods and procedures to be used for the qualification and comparison of support or retention devices used in the installation of aerospace fluid systems.

It is applicable when reference is made to parts standards, procurement specifications, or other definition documents.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1431-1:2004, *Rubber, vulcanized or thermoplastic — Resistance to ozone cracking — Part 1: Static and dynamic strain testing*

ISO 2951, *Vulcanized rubber — Determination of insulation resistance*

ISO 4892-3, *Plastics — Methods of exposure to laboratory light sources — Part 3: Fluorescent UV lamps*

3 General requirements

3.1 The tests required by this specification relate only to the qualification of the device. They do not infer qualification of the service, installation or techniques used. All devices tested shall be in conformance with the applicable parts standard or development criteria.

3.2 Unless otherwise specified, all tests should be conducted at room temperature (25 ± 10) °C.

4 Material tests

4.1 General

All materials used shall be in conformance with the specifications specified in the applicable parts standard. In addition, the following tests may be required by the parts standard, procurement specification or contract.

4.2 Ozone resistance

All non-metallic materials, vulcanized or thermoplastic, shall be free of cracking when tested in accordance with ISO 1431-1:2004, procurement B, at a volume fraction of ozone of 6×10^{-6} , under an 80 % strain for 6 h, and at a temperature of (40 ± 2) °C.