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PEOPLE'S REPUBLIC OF CHINA**

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Aircraft - Tubing tolerances

飞机 管材公差

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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".

This document is equivalent to ISO 12573:2010 "Aircraft tubing - Tolerances in inches".

The following minimal editorial changes have been made to this document.

---To align with existing standards, the standard name has been changed to "Tolerances for Aircraft Tubing";

---Modify the table format to better suit domestic table-making practices;

---Notes in Table 9 have been updated with the explanation of the symbol "-".

1 Scope

This document specifies the tolerances for circular cross-section tubing used on aircraft.

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 to this document.

ISO 8575 Aerospace Fluid Systems - Hydraulic Systems Piping

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Nominal size

Part Number Determine the dimensionless properties of the dimensions of fluid system components.

Note: For pipes, the nominal size is the nominal value of the outer diameter, expressed in one-sixteenth of an inch (1.59 mm). Example: -04 indicates $4/16\text{in} = 0.250\text{in} = 6.35\text{mm}$

3.2 Outer diameter outside diameter

The distance between any two points at 180° intervals around the pipe within the same cross-section on the outer side of the pipe. See Figure 1.

Note: Unless otherwise specified, the outer diameter limit includes all allowances for ellipticity (insufficient coaxiality).