

JIS

JAPANESE INDUSTRIAL STANDARD

**Test method for linear thermal
expansion coefficient of
fiber reinforced metals**

JIS H 7404—1993

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Test method for linear thermal expansion
coefficient of fiber reinforced metals

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1. **Scope** This Japanese Industrial Standard specifies the test method for linear thermal expansion coefficient of fiber reinforced metals.

Remarks: The following standards are cited in this Standard.

JIS H 7006 Glossary of terms used in metal matrix composites

JIS Z 8401 Rules for rounding off of numerical values

JIS Z 8704 Temperature measurement — Electrical methods

2. **Definitions** For the main terms used in this Standard the definitions in JIS H 7006 apply, and the rest of the terms shall be as follows:

- (1) **thermal expansion curve** Is the relational diagram of variation in length of fiber reinforced metal by variation in temperature. The typical diagram of the thermal expansion curve of fiber reinforced metals is given in Fig. 1.

Fig. 1. Typical diagram of thermal expansion curve

(a) Principal axis direction

(b) Direction perpendicular to principal axis

