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JAPANESE INDUSTRIAL STANDARD

Method of determining the PCT relations of hydrogen — absorbing alloys

JIS H 7201—1991

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JAPANESE INDUSTRIAL STANDARD J I S

Method of determining the PCT relations of hydrogen - absorbing alloys

H 7201-1991

1. Scope

This Japanese Industrial Standard specifies the general measuring method for obtaining the PCT relations of hydrogen absorbing alloys indicating a plateau pressure of 0.1 to 2 MPa at room temperature to 150°C by the Sievert's method (volumetric method). The pressure range capable of being measured with an apparatus shall be 1 kPa to 5 MPa.

Remarks: The following standards are cited in this Standard:

JIS H 7003 Glossary of Terms Used in Hydrogen Absorbing Alloys

JIS K 0512 Hydrogen

JIS Z 8401 Rules for Rounding off of Numerical Values

JIS Z 8801 Test Sieves

2. Definitions

For the main terms used in this standard, the definitions given in JIS H 7003 shall apply.

3. Symbols

The symbols used in this Standard shall be as follows:

X : mass of sample (g)

M : number of moles ([1]) of an alloy

R : gas constant = 8.31441 ($J \cdot mol^{-1} \cdot K^{-1}$)

W : percentage by weight to alloy

$$= \frac{\text{quantity of absorbed hydrogen}}{\text{mass of sample}} \times 100 \text{ (wt \%)}$$

H/M : ratio of number of atoms of hydrogen to that of the alloy

In relation to sample container

T_r : sample temperature (K)

v_r : internal capacity of sample container ([2]) (cm^3)

P_r : equilibrium pressure (MPa)

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