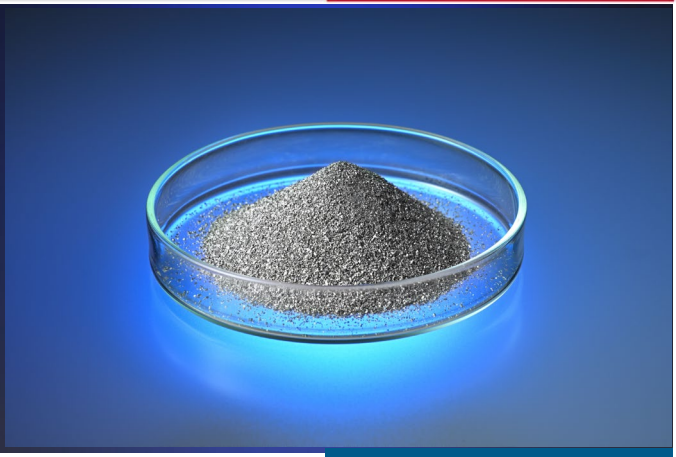
PROTERIAL

Hydrogen storage alloy

By using it in a hydrogen tank, a large amount of hydrogen can be stored compactly at low pressure.



TiFe-alloys(powder)

Outline

Development of low-cost TiFe-based hydrogen storage alloys compared to conventional Ni-containing hydrogen storage material

High hydrogen storage capacity

Good initial activity and plateau

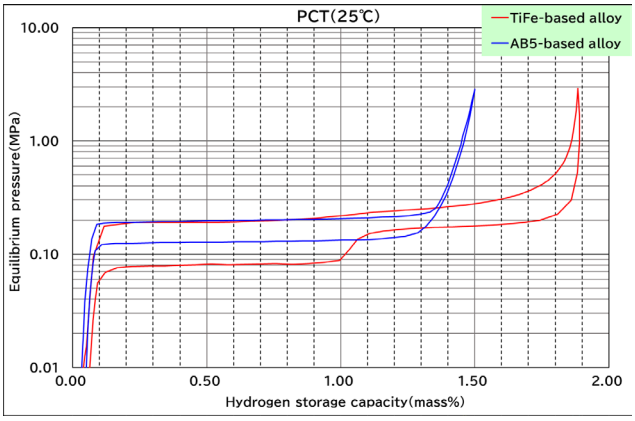
Applications

Hydrogen storage tank

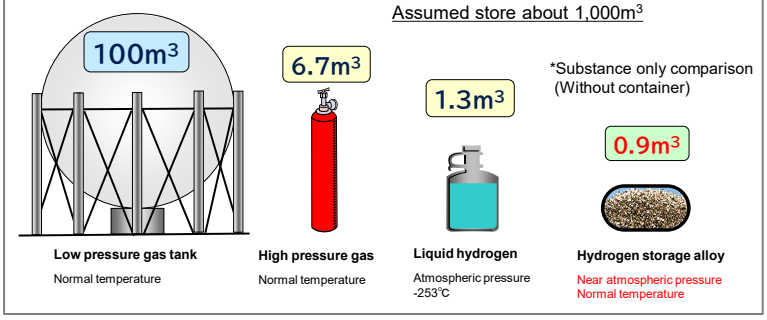
Hydrogen storage canister

Feature

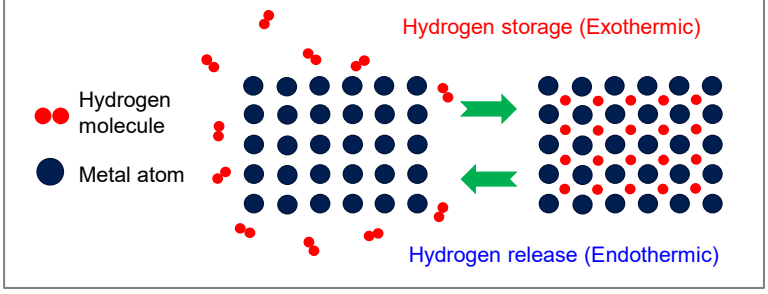
＊Example of original manufacturing method



Comparison of hydrogen storage volume by storage method



Hydrogen absorption/desorption image



Hydrogen storage alloys are one of the most compact hydrogen storage methods.

It is highly safe because it is stored as a hydride[solid] at normal temperature and pressure[less than 10 atom].

The developed TiFe-based alloy has an about 25% increase in hydrogen storage capacity on a weight basis compared to conventional AB5-based alloys.

Please to contact us with your various requests such as alloy types and alloy properties.

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