CLAIMS

1. A vacuum heat-insulating material comprising:

a core material made of a fiber aggregate;

an adsorbent that adsorbs at least water;

a wrapping material that is configured using a breathable sheet member and that wraps the adsorbent; and

an outer wrapping material that covers the adsorbent wrapped with the wrapping material, and the core material, where an inside of the outer wrapping material is depressurized and hermetically sealed, wherein

Japanese paper is used solo as the wrapping material, and

the adsorbent is wrapped with the wrapping material without using heat seal.

2. The vacuum heat-insulating material according to claim 1, wherein the adsorbent is sealed in the wrapping material by twist wrapping or folding wrapping.

3. The vacuum heat-insulating material according to claim 1, wherein the wrapping material is ligated by ligating wrapping, in which the adsorbent is sealed.

4. The vacuum heat-insulating material according to any one of claims 1 to 3, wherein an air permeability of the wrapping material is not less than 5 $cm^3/cm^2/s$ and not more than 50 $cm^3/cm^2/s$.

5. The vacuum heat-insulating material according to any one of claims 1 to 4, wherein the adsorbent is calcium oxide, silica gel, or zeolite.

6. A heat-insulating box including the vacuum heat-insulating material according to any one of claims 1 to 5.

7. A production method of a vacuum heat-insulating material, the method comprising:

a step of wrapping an adsorbent that adsorbs at least water with a wrapping material configured using a breathable sheet member, without using heat seal;

a step of covering the adsorbent wrapped with the wrapping material, and a core material made of a fiber aggregate with an outer wrapping material; and

a step of depressurizing and hermetically sealing an inside of the outer wrapping material, wherein

Japanese paper is used solo as the wrapping material.