CLAIMS

1. A gas-filled container comprising:

a filled container filled with (E)-1,1,1,4,4,4-hexafluoro-2-butene, wherein

a part in contact with the filled (E)-1,1,1,4,4,4-hexafluoro-2-butene of the filled container including a cylinder and a valve is formed of a metal having a copper concentration of less than 0.5% by mass.

2. The gas-filled container according to claim 1, wherein the part in contact with the filled (E)-1,1,1,4,4,4-hexafluoro-2-butene of the filled container is formed of a metal having a copper concentration of less than 0.4% by mass.

3. The gas-filled container according to claim 1 or 2, wherein the metal is steel.

4. The gas-filled container according to claim 1 or 2, wherein the metal is at least one of manganese steel and chromium molybdenum steel.

5. The gas-filled container according to any one of claims 1 to 4, wherein the copper concentration is measured by X-ray photoelectron spectroscopy.

6. The gas-filled container according to any one

of claims 1 to 5, wherein the filled container includes:

a cylinder containing the (E)-1,1,1,4,4,4-hexafluoro-2-butene; and

a valve configured to open and close a flow passage for causing the (E)-1,1,1,4,4,4-hexafluoro-2-butene inside the cylinder to flow to an outside.

7. The gas-filled container according to any one of claims 1 to 6, wherein a purity of the (E)-1,1,1,4,4,4-hexafluoro-2-butene to be filled is 99.90% by volume or more.

8. A method for storing (E)-1,1,1,4,4,4-hexafluoro-2-butene comprising:

filling (E)-1,1,1,4,4,4-hexafluoro-2-butene into a container for storage, wherein

a part in contact with the filled (E)-1,1,1,4,4,4-hexafluoro-2-butene of the filled container including a cylinder and a valve is formed of a metal having a copper concentration of less than 0.5% by mass.

9. The method for storing (E)-1,1,1,4,4,4-hexafluoro-2-butene according to claim 8, wherein the part in contact with the filled (E)-1,1,1,4,4,4-hexafluoro-2-butene of the filled container is formed of a metal having a copper concentration of less than 0.4% by mass.

10. The method for storing (E)-1,1,1,4,4,4-hexafluoro-2-butene according to claim 8 or 9, wherein the metal is steel.

11. The method for storing (E)-1,1,1,4,4,4-hexafluoro-2-butene according to claim 8 or 9, wherein the metal is at least one of manganese steel and chromium molybdenum steel.

12. The method for storing (E)-1,1,1,4,4,4-hexafluoro-2-butene according to any one of claims 8 to 11, wherein the copper concentration is measured by X-ray photoelectron spectroscopy.

13. The method for storing (E)-1,1,1,4,4,4-hexafluoro-2-butene according to any one of claims 8 to 12, wherein a purity of the (E)-1,1,1,4,4,4-hexafluoro-2-butene to be filled is 99.90% by volume or more.