CLAIMS

1. A phosphorus-containing copper powder containing phosphorus, wherein

a ratio of an oxygen content (wt.%) to a BET specific surface area (m^2 / g) (oxygen content / BET specific surface area) is 0.90 wt.% · g / m^2 or less,

a divalent copper compound is present on a surface of particles constituting the phosphorus-containing copper powder,

a carbon content is 0.10 wt.% or less,

D50 is 7.11 μm or less, and

a content of phosphorus is from 305 to 1000 ppm.

2. The phosphorus-containing copper powder according to claim 1, wherein the content of phosphorus is from 305 to 405 ppm.

3. The phosphorus-containing copper powder according to claim 1, wherein the content of phosphorus is from 500 to 650 ppm.

4. The phosphorus-containing copper powder according to claim 1, wherein the content of phosphorus is from 380 to 550 ppm.

5. The phosphorus-containing copper powder according to any one of claims 1 to 4, wherein a value of oxygen in the phosphorus-containing copper powder × D50 is 1.40 wt.% · μm or less.

6. The phosphorus-containing copper powder according to any one of claims 1 to 5, wherein D50 is less than 1.0 μm.

7. The phosphorus-containing copper powder according to any one of claims 1 to 6, wherein a ratio of carbon content (wt.%) to the BET specific surface area (m^2 / g) of the phosphorus-containing copper powder (carbon content / BET specific surface area) is 0.03 wt.% · g / m^2 or less.

8. A method for producing a phosphorus-containing copper powder from a molten metal in which phosphorus has been added to melted copper by a water atomizing method, wherein

a content of phosphorus in the molten metal is from 1200 to 1600 ppm, and

a spray water used in the water atomization method is an alkaline aqueous solution.

9. A method for producing a phosphorus-containing copper powder from a molten metal in which phosphorus has been added to melted copper by a water atomizing method, wherein

a content of phosphorus in the molten metal is from 850 to 1200 ppm, and

a spray water used in the water atomization method is an alkaline aqueous solution.

10. The method for producing a phosphorus-containing copper powder according to claim 8 or 9, wherein pH of the alkaline aqueous solution is adjusted to 8 to 12 mainly by an inorganic salt.