CLAIMS

1. A sintered material of austenite steel powder containing:

30 to 45% Ni; 12 to 25% Cr; 3 to 6% Nb; 0.001 to 0.05% B; equal to or more than 0.3 % and not more than 1.3% Ti; not more than 6% W; not more than 4.8% Mo; and equal to or more than 0.014% and not more than 0.5% Zr in percentage by mass, with a balance made up of Fe and unavoidable impurities.

2. A sintered material of austenite steel powder containing:

30 to 45% Ni; 12 to 20% Cr; 3 to 5% Nb; 0.001 to 0.02% B; 0.3 to 1.3% Ti; not more than 5.5% W; not more than 2% Mo; and equal to or more than 0.014% and not more than 0.3% Zr in percentage by mass, with a balance made up of Fe and unavoidable impurities.

3. A sintered material of austenite steel powder containing:

30 to 40% Ni; 15 to 20% Cr; 3.5 to 4.5% Nb; 0.001 to 0.02% B; 0.5 to not more than 1.1% Ti; not more than 5.5% W; and equal to or more than 0.014% and not more than 0.3% Zr in percentage by mass, with a balance made up of Fe and

unavoidable impurities.

4. The sintered material of austenite steel powder according to any one of claims 1 to 3, wherein an average particle diameter of the sintered material of austenite steel powder is 10 to 300 μm.

5. The sintered material of austenite steel powder according to any one of claims 1 to 3, wherein a Laves phase precipitates on a crystal grain boundary of the sintered material of austenite steel powder.

6. The sintered material of austenite steel powder according to claim 5, wherein the Laves phase is made up of Fe_2Nb.

7. A turbine member comprising the sintered material of austenite steel powder according to any one of claims 1 to 3.

8. The turbine member according to claim 7, wherein the turbine member is a turbine valve casing or a turbine disc.

9. Austenite steel powder containing 30 to 45% Ni;

12 to 25% Cr; 3 to 6% Nb; 0.001 to 0.05% B; equal to or more than 0.3 % not more than 1.3% Ti; not more than 6% W; not more than 4.8% Mo; and equal to or more than 0.014% and not more than 0.5% Zr in percentage by mass, with a balance made up of Fe and unavoidable impurities.

10. Austenite steel powder containing 30 to 45% Ni; 12 to 20% Cr; 3 to 5% Nb; 0.001 to 0.02% B; 0.3 to 1.3% Ti; not more than 5.5% W; not more than 2% Mo; and not more than 0.3% Zr in percentage by mass, with a balance made up of Fe and unavoidable impurities.

11. Austenite steel powder containing 30 to 40% Ni; 15 to 20% Cr; 3.5 to 4.5% Nb; 0.001 to 0.02% B; 0.5 to not more than 1.1% Ti; not more than 5.5% W; and equal to or more than 0.014% and not more than 0.3% Zr in percentage by mass, with a balance made up of Fe and unavoidable impurities.

12. The austenite steel powder according to any one of claims 9 to 11, wherein an average particle dimeter of the austenite steel powder is not more than 250 μm.