CLAIMS

1. A C-containing sputtering target comprising Pt, C, and one or more selected from Fe and Co, wherein in a particle size distribution of a dissolution residue of the sputtering target, 90 percentile of the particle diameter based on the volume, D90 is 20.0 μm or less, 10 percentile of the particle diameter based on the volume, D10 is 0.5 μm or more and 2.0 μm or less, and particle size of less than 1.0 μm accounts for 40% or less in cumulative volume distribution.

2. The C-containing sputtering target according to Claim 1, wherein the D90 is 5.0 μm or more and 20.0 μm or less.

3. The C-containing sputtering target according to Claim 1 or 2, wherein further in the particle size distribution of the dissolution residue of the sputtering target, 50 percentile of the particle diameter based on the volume, D50 is 2.0 μm or more and 7.0 μm or les

4. The C-containing sputtering target according to any one of Claims 1 to 3, comprising 5 mol% or more and 55 mol% or less of Pt and 10 mol% or more and 60 mol% or less of C, with the balance being one or more selected from Fe and Co as well as incidental impurities.

5. The C-containing sputtering target according to Claim 4, further comprising, in total, more than 0 mol% and 20 mol% or less of one or more selected from Ag, Au, B, Cr, Cu, Ge, Ir, Ni, Pd, Rh, and Ru.

6. The C-containing sputtering target according to Claim 4 or 5, further comprising, in total, more than 0 mol% and 20 mol% or less of a nonmagnetic material excluding C.

7. The C-containing sputtering target according to Claim 6, wherein the nonmagnetic material is one or more selected from Si oxide, Ti oxide, Ta oxide; B nitride, Ti nitride, and Ta nitride.

8. A production method for the C-containing sputtering target according to any one of Claims 1 to 7, comprising: mixing a C powder with at least one selected from metal powders and an alloy powder by a mixing apparatus having a three-dimensional motion mechanism for rotating in a vertical direction and a horizontal direction to prepare a

mixture at 10 rpm or more and 50 rpm or less for 20 hours or more; and sintering the mixture.