

ABSTRACT

[Problem] A quartz glass crucible capable of reducing carbon contamination and the rate of pinhole formation in a silicon single crystal, a manufacturing method of the quartz glass crucible, and a manufacturing method of a silicon single crystal are provided.

- 5 [Solution] A quartz glass crucible 1 according to the present invention includes a crucible base body 10 consisting of silica glass and a coating film 13 containing a crystallization accelerator and formed on the inner surface 10i of the crucible base body 10. The average carbon concentration in the coating film 13, and the crucible base body within a range of 0 μm or more and 300 μm or less in depth from the inner surface 10i of the
- 10 crucible base body 10 is 1.0×10^{12} atoms/cc or more and 3.0×10^{19} atoms/cc or less.