

[ABSTRACT]

Provided is a quartz glass crucible capable of pulling up a silicon single crystal having a low oxygen concentration and a stable oxygen concentration distribution in a pulling-up axis direction.

- 5 A quartz glass crucible 1 having a cylindrical side wall portion 10a, a bottom portion 10b, and a corner portion 10c connecting the side wall portion 10a and the bottom portion 10b to each other includes a transparent layer 11 made of quartz glass that does not contain bubbles, and a bubble layer 12 made of quartz glass containing a large number of bubbles and formed outside the transparent layer 11. A ratio of an infrared
- 10 transmissivity of the corner portion 10c at a maximum thickness position of the corner portion 10c to an infrared transmissivity of the side wall portion 10a is 0.3 or more and 0.99 or less, and an absolute value of a rate of change in infrared transmissivity in a height direction along a wall surface of the crucible from a center of the bottom portion 10b toward an upper end of the side wall portion 10a is 3 %/cm or less.