

ABSTRACT

[Problem] Provided is a quartz glass crucible capable of not only enduring a single crystal pulling-up process that takes a very long time, such as multi-pulling, but also stably controlling the oxygen concentration and crystal diameter of a silicon single crystal by eliminating a gap between the carbon susceptor and the crucible as much as possible.

[Means to solve the problems] A quartz glass crucible 1 according to the present invention is provided with: a crucible body 10 made of silica glass; and a crystallization-accelerator-containing layer 13 formed on an outer surface of the crucible body 10. A concentration of a crystallization accelerator contained in the crystallization-accelerator-containing layer 13 is 1.0×10^{13} atoms/cm² or more and 4.8×10^{15} atoms/cm² or less.

[Selected figure] FIG. 1