Claims

1. A quartz glass crucible comprising:

a straight body portion having a cylindrical shape;

a bottom portion which is curved; and

a corner portion provided between the straight body portion and the bottom portion,

wherein a bubble content of an inner surface layer portion ranging from an inner surface to a depth 0.5 mm in an upper portion of the straight body portion is 0.2% or more and 2% or less,

the bubble content of the inner surface layer portion in a lower portion of the straight body portion is more than 0.1% and not more than 1.3 times a lower limit of the bubble content of the upper portion of the straight body portion,

the bubble content of the inner surface layer portion in the corner portion is more than 0.1% and 0.5% or less,

the bubble content of the inner surface layer portion in the bottom portion is 0.1% or less, and

the bubble content of large-sized bubbles having a diameter of 300μm to 500μm increases from the corner portion toward the upper portion of the straight body portion.

2. The quartz glass crucible according to claim 1, wherein an average diameter of bubbles contained in the inner surface layer portion is 50 μm or more and 500 μm or less.

3. The quartz glass crucible according to claim 2, wherein bubbles having a diameter larger than 500μm are not present therein.

4. The quartz glass crucible according to any one of claims 1 to 3, wherein a surface roughness Ra of the inner surface of the crucible is in a range of 0.001μm to 0.2μm.