

ABSTRACT

SPHERICAL CRYSTALLINE SILICA PARTICLES AND METHOD FOR PRODUCING SAME

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[Abstract]

10 Provided are: spherical crystalline silica particles which ensure higher productivity and lower production costs than conventional ones, contain plenty of quartz having high thermal conductivity, have high fluidity, high dispersibility, high filling property, and low abrasion property, and are also applicable to semiconductor field; and a method for producing the spherical crystalline silica particles. The crystalline silica particles are characterized in that with respect to the total mass of the particles, the content of a crystal phase is at least 90 mass% and the content of a quartz crystal is at least 70 mass%. In addition, at least one kind of alkali metals may be contained in an amount of 0.4-5 mass% in terms of oxides, with respect to the total mass of the particles. Furthermore, at least one kind of alkaline earth metals may be contained in an amount of 1-5 mass% in terms of oxides, with respect to the total mass of the particles.

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[No figure]