

ABSTRACT

SPHERICAL EUCRYPTITE PARTICLES AND METHOD FOR PRODUCING SAME FIELD

The present invention addresses the problem of providing: spherical eucryptite particles which have higher circularity than in the prior art, have a large negative thermal expansion and a high thermal conductivity, have high flowability, dispersibility, and filling capability, and are also applicable in the field of semiconductors; and a method for producing the spherical eucryptite particles. As a means for solving the problem, the present invention provides: the method for producing the spherical eucryptite particles characterized by heat treating, at 600 to 1100°C, spherical particles which have been thermally sprayed with a feedstock powder that includes 45 to 55 mol% of SiO₂, 20 to 30 mol% of Al₂O₃, and 20 to 30 mol% of Li₂O, and obtaining spherical particles that include 89% or more of a eucryptite crystalline phase; and the spherical eucryptite particles obtained by this method.