

POWDER AND METHOD FOR PRODUCING THE SAME**ABSTRACT**

A zirconia powder comprising 2% by mole or more and 8% by mole or less of a stabilizing element and 50 ppm or less of titanium (Ti) and having an activation energy of 225 kJ/mol or more and 300 kJ/mol or less, which provides at least one of a zirconia powder capable of producing a sintered body with high translucency even by pressureless sintering and suitable for industrial production, a method for producing the zirconia powder, a method for producing a calcined body using the zirconia powder, and a method for producing a sintered body using the zirconia powder. Such a powder is preferably produced by a method comprising the steps of: adjusting a pH of a raw material solution containing a zirconium source and a stabilizing element source to 3.5 or more and 5.5 or less; heating the raw material solution to produce a zirconia sol solution; mixing the zirconia solution and an alkaline solution to produce a coprecipitate; and heat-treating the coprecipitate.

[No Available Figure]