

ABSTRACT

A ceramic composition especially useful for a thermistor exhibiting stable resistance values over a wide temperature range and capable of being used for a prolonged time is described. The composition is represented by the formula $(M^1M^2O_2)_{1-x} \cdot (M^1AlO_3)_x$, wherein M^1 is an element selected from the elements of the group 3A excluding La and M^2 is an element of the groups 4A, 5A, 6A, 7A and 8, and wherein the mixing ratio between an electrically conductive substance stable at elevated temperatures and an insulating substance stable at elevated temperatures, may be adjusted. A thermistor formed of the composition is superior in high-temperature stability and can be used over a broad temperature range because its resistance value can be selected to an optimum value.

Furthermore described is a process for producing a ceramic composition and a process for producing a thermistor element (1).

This Sheet Has Been Replaced

