

Abstract

Title of the Invention: Method for the Production of Water-Reactive Al Film and Constituent Member for Film-Forming Chamber

Herein disclosed are a method for the production of a water-reactive Al film comprising the steps of melting a material which contains 4NaAl or 5NaAl as an Al raw material and added In in an amount ranging from 2 to 5% by mass on the basis of the mass of the Al raw material in such a manner that the composition of the material becomes uniform; thermally spraying the resulting molten material on the surface of a base material according to the flame spraying technique; and solidifying the sprayed molten material through quenching to thus form an Al film in which In is uniformly dispersed in Al crystalline grains; and a constituent member for a film-forming chamber, which is provided, on the surface, with the water-reactive Al film.

Fig. 1