

ABSTRACT

WATER-REACTIVE AL-BASED COMPOSITE MATERIAL, WATER-REACTIVE AL-BASED THERMALLY SPRAYED FILM, PROCESS FOR PRODUCTION OF SUCH AL-BASED THERMALLY SPRAYED FILM, AND CONSTITUENT MEMBER FOR FILM-FORMING CHAMBER

Herein provided are a water-reactive Al-based composite material which is characterized in that it is produced by incorporating, into Al, 2.0 to 3.5% by mass of In, 0.2 to 0.5% by mass of Si and 0.13 to 0.25% by mass of Ti, and which can be dissolved in water through the reaction thereof in a water-containing atmosphere; a water-reactive Al-based thermally sprayed film produced using this composite material; a method for the production of this Al-based thermally sprayed film; and a constituent member for a film-forming chamber which is provided with this Al-based thermally sprayed film on the surface thereof.

Fig. 2