

SURFACE-TREATED ALUMINUM MATERIAL, METHOD OF MANUFACTURING
THE SAME, AND MEMBER FOR SEMICONDUCTOR-PROCESSING APPARATUS

ABSTRACT

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A surface-treated aluminum material (1) comprises: a base material (2) composed of aluminum or an aluminum alloy; and a protective coating (3) formed on at least a portion of a surface of the base material (2) and containing oxides of aluminum and hydrated oxides of aluminum. The thickness of the protective coating (3) is 2 μm or more. When the mass percentages of elements in the protective coating (3) are analyzed in a depth direction by glow-discharge optical-emission spectrometry, the ratio $C_{\text{H}}/C_{\text{Al}}$ of an integrated hydrogen atom mass percentage C_{H} to an integrated aluminum atom mass percentage C_{Al} , in a range extending from a surface of the protective coating (3) to a location at a depth of 1 μm , is 0.2 or more and 0.7 or less.

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[Fig. 1]