

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

5 [Document Name] ABSTRACT

10 A surface-treated aluminum material (1) comprises: a base material (2), which is composed of aluminum or an aluminum alloy in which the Cu content is 0 mass% or more and 1.8 mass% or less; and a protective film (3), which is formed on the base material. The protective film (3) comprises: an oxide layer (31), which is composed of an oxide or oxides of aluminum and covers the base material (2); and a hydrated oxide layer (32), which contains a hydrated oxide or hydrated oxides of aluminum and covers the oxide layer (31). In the situation in which cathodic polarization measurements are performed, using a prescribed measurement solution, on the base material (2) and on the surface-treated aluminum material 15 (1) after it had been heated for 4 hours at a temperature of 200°C, the ratio J1/J2 of the current density J1 of the surface-treated aluminum material (1) to the current density J2 of the base material (2) is 150×10^{-5} or less.

[Fig. 1]