

## ABSTRACT

The purpose of the present invention is to provide a stainless steel member and a production method thereof, said stainless steel member having a passivation layer formed on a surface of a base material formed from stainless steel, wherein the film thickness of the passivation layer is 2-20 nm, and the concentration of chromium atoms in the outermost surface of the passivation layer is 0.1-2.3 by atomic percentage. Also provided are a device or container, the liquid-contact part of which in contact with a semiconductor treatment liquid is formed from the stainless steel member, a semiconductor treatment liquid production method for producing the semiconductor treatment liquid by using the device, and a semiconductor treatment liquid storage method for storing the semiconductor treatment liquid in the container.