

ABSTRACT OF THE DISCLOSURE

TUBE BODY THAT IS TO BE USED IN HIGH-TEMPERATURE ATMOSPHERE AND METHOD FOR FORMING METAL OXIDE LAYER ON INNER SURFACE OF TUBE BODY

5 The present invention provides a tube body that is to be used in a high-temperature atmosphere and a method for stably forming a metal oxide layer on an inner surface of the tube body at a high area percentage.

 The tube body that is to be used in a high-temperature atmosphere according to the present invention is constituted by a heat-resistant alloy
10 containing Cr in an amount of 15 mass% or more and Ni in an amount of 18 mass% or more, and on the inner surface, an arithmetic average roughness (Sa) of three-dimensional surface roughness satisfies $1.5 \leq Sa \leq 5.0$ and a skewness (Ssk) of a surface height distribution satisfies $|Ssk| \leq 0.30$. The heat-resistant alloy may contain Al in an amount of 2.0 mass% or more. On
15 the inner surface, a kurtosis (Sku) of a surface height distribution of the three-dimensional surface roughness may satisfy $Sku \geq 2.5$.

FIG. 1