

AUSTENITIC STAINLESS STEEL SHEET, COVER MEMBER AND PRODUCTION METHOD FOR AUSTENITIC STAINLESS STEEL SHEET

ABSTRACT

An austenitic stainless steel sheet with excellent cleanability, antiglare properties and hydrophilicity is provided.

In the austenitic stainless steel sheet, which is temper-rolled using a dull roll after finishing cold rolling and bright annealing, the arithmetic average roughness R_a in the direction perpendicular to the rolling direction on the steel sheet surface is $0.2\text{ }\mu\text{m}$ or more and $1.2\text{ }\mu\text{m}$ or less. In addition, the dull pattern transfer rate on the steel sheet surface is 15% or more and 70% or less. Furthermore, micropits with a depth of $0.5\text{ }\mu\text{m}$ or more and an open area of $10\text{ }\mu\text{m}^2$ or more which are formed on the steel sheet surface have an existing density of 10.0 or less per 0.01 mm^2 and an open area ratio of 1.0% or less. In addition, a film formed on the steel sheet surface is constituted from an oxide containing SiO_2 as a main constituent, which oxide contains at least Si, N, Al, Mn, Cr, Fe, Nb, Ti and O as film-forming elements other than C, wherein the Si content is 10 at% or more, and the N content is 10 at% or less.

Fig. 1