

ABSTRACT

AUSTENITIC STAINLESS STEEL SHEET AND METHOD FOR MANUFACTURING THE SAME

An austenitic stainless steel sheet comprising, by mass%, C + N: 0.03 to 0.20%, Si: 0.1 to 1.5%, Mn: 0.10 to 1.5%, Cr: 15.0 to 22.0%, Ni: 4.5 to 10.0%, Cu: 0.10 to 2.0%, Mo: 0.1 to 2.0%, Nb: 0.02 to 0.50%, and the balance being Fe and impurities, wherein an average grain size is 5.0 μm or smaller, a ratio of non-recrystallized area is 3.0% or lower, and an average aspect ratio of grains is 1.2 or lower. The austenitic stainless steel sheet is suitable for high-precision working such as etching and laser machining.

Figure 1