

Abstract

The weld metal of the present invention has a given chemical composition, contains retained austenite particles in an amount of 2,500 grains/mm² or more, and has a volume fraction of the retained austenite particles of 4.3 vol% or more and a content ratio of Cr and Mn, [Cr]/[Mn], of 0.20 or more. The weld metal has excellent resistance to hydrogen embrittlement even when the weld metal has a high tensile strength of more than 780 MPa.