

ABSTRACT

Title of Invention: SURFACE-TREATED STEEL SHEET

It is an object to provide a surface-treated steel sheet having excellent worked part corrosion resistance, particularly excellent end part corrosion resistance.

A surface-treated steel sheet includes a chemical conversion coating with a thickness of 3.0 μm or less, the chemical conversion coating being placed on a surface of a hot-dip Zn-Al alloy coated steel sheet including a hot-dip Zn-Al alloy coating film containing Al: more than 1.0 mass% and 15 mass% or less, a balance being Zn and inevitable impurities. The chemical conversion coating contains $\text{AlH}_2\text{P}_3\text{O}_{10} \cdot 2\text{H}_2\text{O}$ and a compound containing one or more elements selected from Mg, Ca, and Sr such that a sum of contents of $\text{AlH}_2\text{P}_3\text{O}_{10} \cdot 2\text{H}_2\text{O}$ and the compound is 3.0 mass% to 50 mass%.

(No Suitable Figure)