

ABSTRACT

A hot-dip Zn-Al alloy coated steel sheet excellent in blackening resistance and corrosion resistance and a method for manufacturing the same are provided.

On at least one surface of the steel sheet is formed a hot-dip Zn-Al alloy
5 coating layer with a composition containing in mass %: Al: 3.0-6.0%; Mg: 0.2-1.0%; Ni: 0.01-0.10%; and the balance being Zn and incidental impurities. A chemical conversion treatment coating film containing molybdate is formed as an upper layer on the hot-dip Zn-Al alloy coating layer. This provides a hot-dip Zn-Al alloy coated steel sheet excellent in blackening resistance and corrosion
10 resistance, where the coating layer has a surface structure containing Zn-Al-Mg ternary eutectic alloys in an amount of 1 to 50% by area ratio, by the composition and structure of the coating layer and the chemical conversion treatment coating film containing molybdate formed as an upper layer on the coating layer.