

HOT-DIP ZN-ALLOY-PLATED STEEL SHEET AND METHOD FOR PRODUCING SAME

ABSTRACT

This hot-dip Zn-alloy-plated steel sheet comprises: a steel sheet; and a hot-dip Zn-alloy-plated layer arranged on a surface of the steel sheet. The entire surface of the hot-dip Zn-alloy-plated layer satisfies the following formula (1): $S[\text{Zn}(\text{OH})_2]/(S[\text{Zn}(\text{OH})_2]+S[\text{Zn}]) \times 100 \leq 40$. In formula (1): $S[\text{Zn}]$ is the area exhibited by a peak having a center at approximately 1022 eV ascribable to metallic Zn in an intensity profile in XPS analysis of the surface of the hot-dip Zn-alloy-plated layer; and $S[\text{Zn}(\text{OH})_2]$ is the area exhibited by a peak having a center at approximately 1023 eV ascribable to $\text{Zn}(\text{OH})_2$ in an intensity profile in XPS analysis of the surface of the hot-dip Zn-alloy-plated layer.