

ABSTRACT

HOT-DIP GALVANIZED STEEL SHEET AND METHOD
FOR PRODUCING THE SAME

The present invention provides a method for producing a hot-dip galvanized steel sheet having a uniform surface appearance, excellent conductivity and corrosion resistance, and a chromate-free surface treatment coating film. A method of producing a hot-dip galvanized steel sheet includes applying, to a hot-dip galvanized steel sheet having a Ra of 0.5 to 2.0 μm and a PPI of 150 or more, a predetermined surface treatment agent, i.e., a surface treatment agent containing a specified resin compound, a specified urethane resin having cationy, a specified silane coupling agent having a functional group, a specified organic Ti chelate compound, and a tetravalent vanadyl compound at a specified ratio; and drying the surface treatment agent at a ultimate sheet temperature of 50°C to 180°C to form a surface treatment coating film with a coating weight of 0.2 to 1.0 g/m² on the surface of the steel sheet.

Fig. 2