

Title (en)

HOT DIP ZINC PLATED STEEL SHEET AND METHOD FOR PRODUCTION THEREOF

Title (de)

FEUERVERZINKTE STAHLPLATTE UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

TOLE D'ACIER PLAQUEE DE ZINC PAR IMMERSION A CHAUD ET PROCEDE DE PRODUCTION DE CETTE TOLE

Publication

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Application

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Abstract (en)

The invention provides a hot dip galvanized steel sheet which has: a hot dip galvanizing layer having a flat part on a surface thereof; and a film formed on the flat part. The film is composed of a compound containing Zn, Fe, and O, having an average film thickness A in a range from 10 to 100 nm determined by an element analysis of the film, and has { [Fe] / ([Zn] + [Fe]) } in the film in a range from 0.002 to 0.25, where [Zn] and [Fe] designate the content (% by atom) of Zn and Fe in the film, respectively. Since the hot dip galvanized steel sheet of the invention has excellent press-formability, bondability, and phosphatability, it is suitable for automobiles and electrical appliances.

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