

ABSTRACT

A Zn-Al-Mg-based hot-dip plated steel sheet includes a hot-dip plated layer formed on a surface of a steel sheet, in which the hot-dip plated layer contains, as an average composition, Al: 5 to 22 mass% and Mg: 1.0 to 10 mass%, with a remainder including Zn and impurities, and in a case where a 5 mm square cross section parallel to a surface of the hot-dip plated layer is exposed at any position of a $3t/4$ position, a $t/2$ position, and a $t/4$ position from the surface with a thickness of the hot-dip plated layer represented by t , a ratio (B/A (%)) of an area fraction B of a [Zn phase] to a total area fraction A of a [Zn phase] and an [Al/MgZn₂/Zn ternary eutectic structure] of a plating microstructure in at least one cross section is 20% or more.

FIG. 1