

ABSTRACT

HOT-DIP Al-Zn-Si-Mg COATED STEEL SHEET, SURFACE-TREATED STEEL SHEET, AND PRE-PAINTED STEEL SHEET

To provide a hot-dip Al-Zn-Si-Mg coated steel sheet that stably exhibits excellent corrosion resistance. Disclosed is a hot-dip Al-Zn-Si-Mg coated steel sheet including a coating layer, in which the coating layer has a composition containing Al: 45 mass% to 65 mass%, Si: 1.0 mass % to 4.0 mass%, and Mg: 1.0 mass% to 10.0 mass%, with the balance being Zn and inevitable impurities, and diffraction intensities of Mg₂Si and MgZn₂ in the coating layer as measured by an X-ray diffraction method satisfy the following relation (1):

$$\text{Mg}_2\text{Si}(111)/\text{MgZn}_2(100) \leq 2.0 \quad (1).$$

No Suitable Figure