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ABSTRACT OF THE DISCLOSURE

In the galvanized steel sheet, at least a surface modified layer and a topcoat layer are formed on a zinc-based plated layer. The surface modified layer contains 1 to 30 mg/m² of SiO₂ being converted as Si, 0.5 to 15 mg/m² of P, and 0.4 to 10 mg/m² of Al. A non-chromate type surface treated galvanized steel sheet excellent particularly in the resistances to tape peeling and further to tape peeling after alkali degreasing can be provided.