

[ABSTRACT]

A Zn-based plated steel sheet includes: a steel sheet; a Zn-based plated layer which contains Zn and 0.05 to 60 mass% of Al and is placed on at least one surface of the steel sheet; and a chromate-free chemical conversion treatment layer which has a
5 deposition amount of 0.1 to 15 g/m² per surface and is placed on the Zn-based plated layer, in which the chemical conversion treatment layer contains 20 mass% or more of a resin, 1 to 20 mass% of silica particles having an average particle diameter of 5 to 200 nm, and a pigment containing one or more of Cu, Co, or Fe, b* of an appearance of the Zn-based plated steel sheet evaluated in a CIE 1976 (L*, a*, b*) color space is -30 to -2, a
10 60-degree mirror surface glossiness G_s (60°) specified in JIS Z 8741:1997 is 50 to 200, and the Zn-based plated steel sheet exhibits a metallic appearance.

[No figure]