DESCRIPTION

~~HOT-DIP GALVANIZED STEEL PLATE WITH EXCELLENT COATING ADHESION AND PROCESS FOR PRODUCING SAME~~

Technical Field

[0001]

The present invention relates to a hot-dip zinc alloy coated steel sheet that is improved in both the resistance to liquid metal embrittlement cracking and the coating adhesion simultaneously, which is a steel sheet that uses a steel types containing B and further containing at least one of Si, Mn and Cr as a base sheet for coating, and the base steel for coating having been subjected to hot-dip Zn-Al-Mg alloy coating, and relates to a method for producing the same.

Background Art

[0002]

A hot-dip zinc alloy coated steel sheet has been used for various purposes, but a welded zinc alloy coated steel sheet may have a problem that cracks are formed in a welding heat affected zone. This phenomenon is generally referred to as "liquid metal embrittlement cracking" and is considered to occur since the molten coating component acts on the grain boundary of the steel sheet to cause brittle fracture (grain boundary fracture).

DESCRIPTION

HOT-DIP ZINC ALLOY COATED STEEL SHEET EXCELLENT IN COATING ADHESION, AND METHOD FOR PRODUCING THE SAME

Technical Field

[0001]

The present invention relates to a hot-dip zinc alloy coated steel sheet that is improved in both the resistance to liquid metal embrittlement cracking and the coating adhesion simultaneously, which is a steel sheet that uses a steel types containing B and further containing at least one of Si, Mn and Cr as a base sheet for coating, and the base steel for coating having been subjected to hot-dip Zn-Al-Mg alloy coating, and relates to a method for producing the same.

Background Art

[0002]

A hot-dip zinc alloy coated steel sheet has been used for various purposes, but a welded zinc alloy coated steel sheet may have a problem that cracks are formed in a welding heat affected zone. This phenomenon is generally referred to as "liquid metal embrittlement cracking" and is considered to occur since the molten coating component acts on the grain boundary of the steel sheet to cause brittle fracture (grain boundary fracture).