Hot Dip Galvanizing (HDG) Plant, Hot-Dip galvanization, Corrosion Prevention, Metal plating, Coatings, Electrogalvanization, Zinc Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing

Description:

Galvanizedcoatings are applied to iron and steel primarily to provide protection againstcorrosion of the basis metal. Hot Dip Galvanizing is a process in which anadherent, protective coating of zinc and zinc compounds is developed on thesurfaces of iron and steel products by immersing them in a bath of molten zinc.The protective coatings usually consist of several layers. Those closest to thebasis metal are composed of iron-zinc compounds these in turn are covered by anouter layer consisting almost entirely of zinc.

The complexstructure of layers that comprise a galvanized coating varies greatly inchemical composition and physical and mechanical properties, being affected bychemical activity, diffusion, and subsequent cooling. Small differences incoating composition, bath temperature, time of immersion, and rate of coolingor subsequent reheating can result in significant changes in the appearance andproperties of the coating.

Hot dip galvanized coatings areproduced on a variety of steel mill products, using fully mechanized and massproduction methods. Hot dip galvanized zinc coatings have their longest lifeexpectancy in rural areas where sulfur dioxide and other industrial pollutantconcentrations are low. These coatings also give satisfactory service in mostmarine environments. Although the life expectancy of hot dip galvanizedcoatings in more severe industrial environments is not as long as for lessaggressive environments, the coatings are still used extensively in thoseexposures, because in general, no more effective and economical method ofprotection is available.

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