

# Hot Dip Galvanized Steel Coil Factory Price For Sale

Shandong Hengze New Material Co., Ltd. is a hot dip galvanized steel coil supplier with hot dip galvanized steel coil factory price, has a low cost hot dip galvanized steel coil factory, produces hot dip galvanized steel coil for sale. We are very familiar with hot dip galvanized steel coil, let's talk about it.

## **The Production of Hot Dip Galvanized Steel**

The hot dip galvanized steel coil for sale uses an immersion technique whereby the steel is dipped in a bath of molten zinc, the duration of immersion in the bath determines the thickness obtained. A metallurgical bond is formed between the zinc surface and the steel the galvanized steel we make is not just high in strength, but also corrosion-resistant, eco-friendly, durable and lightweight.

The zinc-iron alloy layers formed during the process of galvanizing create a protective coat around the steel, keeping moisture out and preventing corrosion. Galvanizing also imparts excellent adhesion and abrasion resistance, giving our products unmatched protection against the elements. One of the visual effects resulting from galvanization of steels is an appearance of crystalline spangling across the surface. The spangle is a unique and interesting formation on the galvanized surface. It is created by the use of trace metals in the molten zinc, and by controlling the cooling process of the hot-dip zinc coating on the steel.

The process involves running a sheet, plate, structural shape, or constructed shape into a molten bath of high-purity zinc. Additional trace metals are put into the molten zinc to assist in the formation of the zinc crystal on the surface. As the hot, coated steel exits the bath of zinc, it is blasted with air to remove excess zinc from the surface. The zinc surface cools with the steel base material. As the surface cools, crystals of zinc develop across the surface.

## **Spangled Galvanized Steel: Environmental Concerns**

Large spangles can be achieved on the galvanized sheet, but it comes at a cost: these materials often contain lead content. There are other methods to create spangle on galvanized materials, including the use of Antimony, a lustrous grey metalloid for alloying metals. However, Antimony-alloyed galvanized steels are not typical of the same size as the lead-bearing galvanized steels.

Most manufacturers of the galvanized sheet have ceased to produce hot dip galvanized steel coil for sale with the high lead content required for a spangled appearance. Galvanization is the process of applying a protective zinc coating to steel or iron in order to prevent premature rust and corrosion. Proponents of galvanized steel, who may use it to construct or repair steel structures, for example, benefit from lower maintenance and repair costs because of its special properties.

Without protection, steel will rust due to atmospheric conditions over time. The degree of rust will depend on the environment that the product is in. Rust is an iron oxide (typically a red oxide) which is formed by the reduction and oxidation reaction of iron and oxygen, in the presence of water or air moisture.

There are protective methods such as painting or plastic coating, but these methods do have drawbacks. When damaged, sections of the steel will become rusty and the protective coating will fall away, making these types of protection non-lasting and unreliable (always needing continued maintenance). One of the better methods of protecting steel materials against corrosion is through hot-dip galvanization. With hot-dip galvanization, all the surfaces of the material are dipped into, and completely coated with, molten zinc. The corrosion of zinc is very slow, which gives it an extended life while it protects the base metal. Due to the alloying of the Zinc to the iron, cathodic protection occurs. This ensures that small areas of steel which may be exposed through damage are not compromised by rust. Unlike organic coatings, small damaged areas need no touch-up. The cathodic protection will last as long as the zinc layer is present.

### **Benefits of Hot Dip Galvanized Steel Coil**

1. **Economical:** Choosing galvanized steel initially may seem more expensive, but it's a great investment in the long run. Moreover, galvanizing is actually cheaper than many other protective steel coatings.
2. **Low-maintenance:** Steel that lacks a protective coating requires more maintenance to upkeep the appearance and structural safety of the product.
3. **Long Lasting:** Galvanized steel coatings can have a life expectancy of up to 50 years and can withstand urban and coastal exposure.
4. **Unparalleled Protection:** Every inch of galvanized steel is protected—this includes sharp edges and those hard-to-reach crevices.
5. **Fast:** The process of galvanizing is fast and easy. In fact, a full protective coat can be applied in just a few minutes.

### **Application of Hot Dip Galvanized Steel Coil**

The bodies of cars and many bicycles are made from galvanized metals. Some drinking water pipes are still made from galvanized steel. Cold rolled sheet metal is also frequently galvanized. Nuts, bolts, tools, and wires of all kinds are now galvanized because it is a cheap process, and definitely helps boost the metal's lifespan. Galvanized steel, in particular, is often what is used in modern "steel frame" buildings. Galvanized steel is also used to create structures like balconies, verandahs, staircases, ladders, walkways, and more. Galvanized metal is a great choice if your project will live outside after it's done. Fences, roofs, outdoor walkways, these are all great choices for galvanized metal.

In addition, Shandong Hengze New Material Co., Ltd. is a hot dip galvanized steel coil supplier with many years of research and production experience. Welcome to consult hot dip galvanized steel coil price.