

Galvanized flat steel grounding for energy storage container

What materials are used for grounding grid in substation equipment?

Currently, the materials used for grounding grid in substation equipment are mainly from galvanized steel, copper-drawn steel, steel, etc. It was found that the iron-aluminum oxides in red soil can promote the corrosion of copper-clad steel.

Which material is used in the grounding grid and auxiliary anode?

In order to simplify the simulation analysis, the grounding grid and auxiliary anode grounding grid are modeled as 4 × 4 square grounding grid. At present, the steel material is generally used in the grounding grid.

How to reduce corrosion rate of substation grounding grids?

In order to reduce the corrosion rate of substation grounding grids, the substation grounding grids are transferred to auxiliary grounding grids. When lightning stroke or internal short circuit fault occurs in power system, the overcurrent is connected to auxiliary anode grounding grid instead of grounding grid.

Is copper drawn steel a good grounding material?

Copper-drawn steel as a good electrical conductivity, suitable strength and excellent corrosion resistance grounding grid material has been widely used in the soil environment. Some copper-drawn steel was manufactured using a cold-drawn process, while cold-drawn process affects the corrosion resistance of cold-drawn materials.

What is the difference between auxiliary grounding grid iron and zinc?

This is because volume resistivity of zinc material is $5.196 \times 10^{-8} \Omega \cdot m$ less than that of iron material is $9.711 \times 10^{-8} \Omega \cdot m$. Therefore, in the equivalent circuit of unit grounding electrode, the parameter of zinc in auxiliary grounding grid is half of the parameter of grounding grid iron.

How to protect the cathode of a grounding grid from corrosion?

In order to protect the cathode of the grounding grid from corrosion, the sacrificial anode method was used to assist the electrolysis of the grounding grid. At the same time, the design of transferring corrosion current is used to transfer the incoming current to the auxiliary anode grounding grid to protect the main grounding grid from corrosion.

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