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# Chapter 2

## Pin Insulator Properties

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2.1 semi-conductor glazed pin insulator

**By Orient Power**

# semi-conductor glazed pin insulator



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**Semi-conductor glazed pin insulator is one of porcelain insulator with radio interference proof performance.**

## **Definition of semi-conductor glazed :**

Semi-conductor glaze is a kind of used for high voltage electromagnetic and glaze with special performance, the surface resistivity between conductor and insulator.

The glaze is usually consist of metal oxide or compound.

In the semi-conductor glaze besides containing a large number of glass phase and a small amount of air bubbles, also contains various forms of conductive crystallization or solid solution, these conductive phase pass through the glass matrix and make a continuous conductive network.

## **Classification of semi-conductor glazed:**

- ✧ Iron Titanium
- ✧ Titanium
- ✧ Antimony Tin
- ✧ Molybdenum so on.

And the iron titanium and titanium is most commonly used for ceramic insulator.

## **Main advantages of semi-conductor glazed insulator:**

- Evenly potential gradient
- Pollution voltage is higher

Now all the porcelain pin insulator supplied by Orient Power is with the semi-conductor glazed, make the insulator have very good insulation performance.