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# Chapter 1

## Pin Insulator Definition

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1.5 Pin type insulator material

**By Orient Power**

# Pin Type Insulator Material



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The pin type insulator material can be classified as two types: the porcelain pin type insulator, the composite pin type insulator.

## ✚ **Porcelain pin type insulator:**

- Body Material: Good commercial grade wet-process porcelain C110, C120, C130.
- The internal electric charges do not flow freely and therefore make it very hard to conduct an electric current under the influence of an electric field.
- It can Provide excellent hydrophobic and recovery characteristics that limit leakage current and prevents arcing even in very heavy polluted and seacoast environments

## ✚ **Composite pin type insulator:**

- The insulator shed material is FRP & HTV silicone rubber which consists of White carbon black, Aluminum hydroxide, and gum.
- The core rod material of the composite pin type insulator is fiber glass
- The Insulators end fitting materials are hot dip galvanized steel

The selection of the material for pin type insulator is really important; it can decide the electrical properties of the pin type insulator.