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# Chapter 1

## Suspension Insulator Definition

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### 1.8 Suspension Insulator Materials

**By Orient Power**

# Suspension Insulator Material



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## ✚ Suspension insulator material:

Normally there are three kinds of materials for suspension insulator: silicone rubber and porcelain or ceramic, and glass.

## ✚ Porcelain suspension insulator:

Generally, the porcelain suspension insulator is made of good commercial grade wet-process porcelain C110, C120, C130.

- Porcelain suspension insulator advantage:
  - The strong ionic bonding and close packing of atoms constitute porcelain, which makes sure the stability of the suspension insulator.
  - Low raw material cost
- Porcelain suspension insulator disadvantages:
  - Breakage, ceramics are very brittle
  - The porcelain bodies are very heavy

## ✚ Silicone rubber suspension insulator:

- The raw material of the silicone rubber suspension insulator includes white carbon black, aluminum hydroxide and gum.
- Advantages: light weight, good pollution performance, the manufacturing process is shorter than porcelain.

## ✚ Glass suspension insulator:

- Raw material is toughened glass.
- Advantage: no need to check zero value.

✚ **Conclusion:** As the silicone rubber has more advantage over the porcelain, so more and more country choose the silicone rubber suspension insulator instead of porcelain suspension insulator.