



[sales@orientinsulators.com](mailto:sales@orientinsulators.com)  
<http://www.orientinsulators.com>

# Chapter 1

## Insulator Definition

---

1.3 insulator application

By Orient Power

# Insulator application



**Orient Power**

[sales@orientinsulators.com](mailto:sales@orientinsulators.com)

<http://www.orientinsulators.com>

## Electrical insulator application

- ◆ A substance that resists electricity to increase resistance
- ◆ Low to moderate voltages distribution line for insulation
- ◆ Used in electrical equipment to support
- ◆ Separate electrical conductors without allowing current through themselves.
- ◆ Installed in power station and substation
- ◆ To prevent short circuits and sparks

## Thermal insulator application

- ◆ Typically the phrase 'thermal insulator' refers to a material that blocks conduction
- ◆ Heat energy can be transferred by conduction, convection, radiation.
- ◆ Used to reduce the rate of heat transfer
- ◆ Such as clothing is chosen to maintain the temperature of the human body

## Electrical fence insulator application

- ◆ Prevent electrical shorts between the electrified wire and the fence posts
- ◆ To hold electrified wire near a variety of posts without losing energy through the post.
- ◆ Installed on low voltage power line to support wire and insulation.

Want to know more about the concrete application of three kinds of insulator, please pay attention to Orient Power website