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# Chapter 1

## Insulator Definition

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1.7 insulator advantage

**By Orient Power**

# Insulator advantage



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## Electrical porcelain insulator advantage

- ◆ Environmental friendly. At its disposal, the porcelain insulator is not dangerous waste
- ◆ Giving longer useful life in terms of loads generated by electric charges
- ◆ In the dry state as electric insulation material has better electrical properties than the polymer
- ◆ Higher resistance to degradation of the surface
- ◆ Resistant to rodents, termites, birds and other animals capable of compromising the integrity
- ◆ Suitable for extreme hot/cold changes in the environment

## Composite polymer insulator advantage

- ◆ Small volume and light weight, easily to install and transport
- ◆ Better performance in high contamination areas
- ◆ Consistent mechanical and electrical performance throughout entire service life
- ◆ Excellent impact resistance
- ◆ Good resistance to soiling and flashover
- ◆ Good shock resistance collision resist
- ◆ Good performance of hydrophobic
- ◆ Interchangeability- can easily replace existing porcelain insulators

## Glass insulator advantage

- ◆ high mechanic durability
- ◆ their weight and size is lesser than the same insulators made of porcelain