



[sales@composite-insulator.com](mailto:sales@composite-insulator.com)  
<http://www.composite-insulator.com>

# Chapter 1

## Composite Insulator Definition

---

1.7 Advantage of Composite Insulator

By Orient Power

# Advantage of composite insulator



**Orient Power**

[sales@composite-insulator.com](mailto:sales@composite-insulator.com)  
<http://www.composite-insulator.com>

## Advantage of composite insulator

Polymeric composite insulators offer significant advantages over porcelain and glass insulators, especially for ultra HV transmission lines.

The specific advantages of composite insulator, compared with ceramic insulators are:

- ✚ Light weight, and lower construction and transportation costs.
- ✚ Vandalism resistance, less gunshot damage.
- ✚ High strength to weight ratio, longer span / new tower.
- ✚ Better contamination performance.
- ✚ Improved transmission line aesthetics.
- ✚ Hydrophobicity of insulator surfaces.

In addition to the irreplaceable advantage of composite insulator above, there are also some other significant advantages:

- ✚ Do not shatter, break or cause any harm to personnel in the case of misadventure.
- ✚ SIR is also softer than EPDM in that the sheds are pliable. This feature allows greater safety in handling the composite insulators.
- ✚ Since the weight of each composite insulator is less, then the packaging that it comes in is more efficient. There is less packaging, less nails protruding from cases and less clean-up and waste at site.

More detailed info about advantage of composite insulator is shown on Orient Power website.