



sales@orientinsulators.com
<http://www.orientinsulators.com>

Chapter 1

Insulator Definition

1.8 Insulator Specification

By Orient Power

Insulator Specification



Orient Power

sales@orientinsulators.com

<http://www.orientinsulators.com>

insulator Specification

Insulator type/application

- ▶ Disc type insulators are in the shape of a disc.
- ▶ High voltage insulators are a special type normally used in power transmission and distribution lines.
- ▶ Lightning rod insulators are used to protect lightning rods.
- ▶ Long rod insulators are in the shape of a cylinder.
- ▶ Low voltage insulators are a special type of insulator normally used in power distribution lines.
- ▶ Pin type insulators are screwed onto a bolt.
- ▶ Post insulators are mounted with metal bolts on the flanges instead of having a thread.
- ▶ Transmission line insulators used in power transmission lines.

The Performance of insulator specification

- ▶ Basic Insulation Level (B.I.L.) is the capacity of an insulator to withstand a specific voltage
 - ▶ with full required range of ambient operating temperature

The standards of insulator specification:

- ▶ IEC— The International Electrotechnical Commission (IEC) is a global, non-profit organization that develops and maintains voluntary quality, safety, and performance standards for electrical materials, products, and systems
- ▶ ANSI— The American National Standards Institute (ANSI) is the administrator and coordinator of the U.S., private-sector, voluntary standardization system.
- ▶ GB/T— National Standards (GB, GB/T) : Regulatory documents approved and issued by the national standardization authority.