



sales@composite-insulator.com
<http://www.composite-insulator.com>

Chapter 1

Composite Insulator Definition

1.4 Difference between composite insulator,
polymer insulator, silicone rubber insulator

By Orient Power

Difference between composite insulator, polymer insulator, silicone rubber insulator



Orient Power

sales@composite-insulator.com
<http://www.composite-insulator.com>

Difference between composite insulator, polymer insulator, silicone rubber insulator

Both polymer insulator and silicone rubber insulator are composite insulator products, but there is difference between composite insulator, polymer insulator and silicone rubber insulator.

Composite insulator definition:

Composite insulators include a “core” and “housing”. The core is usually made of resin-impregnated glass fibres. The housing can be manufactured from a variety of materials including elastomers (e.g. silicone, ethylene-propylene); resins (e.g. cycloaliphatic epoxy); or fluorocarbons (e.g. polytetrafluoroethylene).

Polymer insulator definition:

Polymer insulator is also known as non-ceramic insulator, whose insulating body consists of at least one organic based material, such as HDPE insulator shown in the picture left.

Silicone rubber insulator definition:

Silicone rubber insulators are the insulators, whose insulating body is made of silicone rubber material.

So, the definition illustrates the difference between composite insulator, polymer insulator and silicone rubber insulator. The silicone rubber insulator is also called composite insulator or polymer insulator, but not all composite insulators or polymer insulators can be called silicone rubber insulators.