



sales@composite-insulator.com

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

Chapter 3

Composite insulator material

3.1.2 Development history of composite insulator shed

By Orient Power

Composite Insulator shed material development history



Orient Power

sales@composite-insulator.com
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Composite insulator shed material development history:

Origin:

- The composite insulator is originated in German, Italy, France and other countries.
- In 1959, the first composite insulator is used in North America, but the composite insulator shed material is not reliable.

Development:

- The Hoechst Ceram Tec Company in German can manufacture the composite insulator shed using silicone rubber material, which is used since 1967 and can be applied in all kinds of bad weather conditions.
- In 1974, the Sediver Company in France manufactured composite insulator shed with EPR material for the first time, and also use the silicone rubber material later.
- The 30 years' application proved the advantages of the silicone rubber material is most suitable for composite insulator shed.
- At the end of 1980s, China begin to use silicone rubber composite insulators, large quantities of these insulator has been applied in electrical system.

Silicone rubber shed has three types:

RTV silicone rubber shed (room temperature vulcanization)

(RTV is not suitable for composite insulator now)

HTV silicone rubber shed (high temperature vulcanization)

LSR: liquid silicone rubber