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Chapter 1

Insulator Definition

1.4 Insulator Material

By Orient Power

Insulator material



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Types of Insulator material:

- **Porcelain insulator**

High quality aluminum oxide porcelain

C110, C120, C130

Brown or grey glazed

Wet-process porcelain

- **Composite insulator**

HTV Silicone Rubber

Fiberglass reinforced core rod

Cast or forging steel end fittings

Aluminium grading rings if applied

- **Plastic insulator**

HDPE: high density polyethylene

- **glass insulator**

High strength toughened glass

How to choose insulator material?

Each material has its advantages and disadvantages, so the insulator material selection depends on its characters and the requirement of customers.

Porcelain is heavy than other material and hard to transport and install, but it is cheap and has a long-life performance. Silicone rubber insulator is easy to install, excellent pollution performance, excellent mechanical properties, resistant to weathering, resistant to vandalism, resistance to damage and so on. Glass insulator has a better strength.