



[sales@composite-insulator.com](mailto:sales@composite-insulator.com)

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

# Chapter 2

## Composite Insulator Types

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### 2.10 The Locomotive Insulator

**By Orient Power**

# The Locomotive Insulator



**Orient Power**

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## **Locomotive insulator Definition:**

As a new generation of insulator, the locomotive Insulator is used in electrified railway and locomotive or trains.

## **Locomotive insulator Application:**

Avoid flashover faulty

Avoids fog coagulation sufficiently

## **Porcelain locomotive insulator:**

Voltage range: 15kv 25kv 27.5kv 30kv 35kv

Color: brown, grey

Mechanical strength: 6KN ...

## **Composite locomotive insulator**

Voltage range: 15kv 25kv 27.5kv 30kv 35kv

Color: red, grey

Mechanical strength: 6KN, 10KN ...

## **Design of composite locomotive insulator:**

Shed spacing are small

Shed diameter is bigger

Sheds are stronger by thick silicone rubber

Sheds are stronger by big radius at the root

## **Requirement of locomotive insulator:**

The locomotive insulator should be withstanding the high speed of the train or subway, especially for the fast train which the speed can reach 350km/hour, the locomotive insulator should be strong enough to support the line.