Chapter 2
Composite Insulator Types

2.10 The Locomotive Insulator

By Orient Power
The Locomotive Insulator

**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.

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