Chapter 2

Composite Insulator Types

2.9 Electrical Railway Insulator

By Orient Power
**Definition:**

The electrical railway insulator is used for railway traction lines.

**Classification:**

- Composite electrical railway insulator
- Hybrid electrical railway insulator
- Porcelain electrified railway insulator

**Composite electrical railway insulator:**

- **Types of insulators used a.c. contact system of electrified railways:**
  - Post type support insulator
  - Locomotive insulator
  - Catenary suspension

- **Composite electrical insulator properties:**
  - High mechanical strength
  - Better inner and outer insulation performance
  - Light weight and small volume

- **Composite electrical insulator application:**
  - Railway traction lines
  - Tunnels of electrical railways
  - High speed railways
  - City subways