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Chapter 2

Composite Insulator Types

2.9 Electrical Railway Insulator

By Orient Power

Electrical Railway Insulator



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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