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Chapter 4

Composite Insulator Manufacturing Process

4.1 Composite Insulator Production Flow Chart

By Orient Power

Composite Insulator Production Flow Chart



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Composite polymer insulator processing flow chart

🌈 Raw material preparing:

End fittings of insulators:

- Casting or forging process
- Hot dip galvanized
- Gauge inspection

Silicone rubber mixing:

- Raw material mixing process
- Air exhausting by rolling compression
- Silicone rubber tensile strength testing
- Production used silicone rubber

Reinforced fiber glass rod:

- Rod extrusion of different size
- testing
- Rod cutting and abrasion
- Rod cleaning and drying

🌈 **Composite insulator production procedure:**

- Assembly of end fittings with reinforced fiber glass rod
- Brush coupling agent on the rod
- Warming up under high temperature
- Compression molding or injection molding of vulcanization
- Crimping of fittings to the rod
- Surface trimming

🌈 **Inspection and tests process of insulators according to IEC or ANSI standard for composite insulators:**

- Routine test
- Sample test