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Chapter 3

Post Insulator Technic

3.1 Dry process of post insulator

By Orient Power

Dry process of post insulator



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Dry process of post insulator:

Because the special mechanical strength required by the porcelain post insulator, the dry-forming technology is widely used in production of porcelain post insulator, which can ensure the higher strength.

ISO static pressing dry processing of post insulator:

- Definition: Isostatic pressing enables to produce various types of materials from powder compacts by reducing the porosity of powder mixture. The powder mixture is compacted encapsulated using isostatic pressure, it means by using pressure equally from all directions.
- The material mainly includes bauxite, clay and feldspar. The strength of the porcelain can be increased by adding the quantum of bauxite.
- The water content of powder mixture is usually 1%-2%, and the water content is well-proportioned, the fluidity of particle is good and the granularity is rational. The pressure of forming is usually set at 110MPa, and this pressure is kept for an appropriated period of time.

Isostatic pressing process:

- Ceramic powder is fed into a molding bag inside an isostatic press
- The press is sealed and the isostatic pressure increased
- The powder compacts and forms a solid in the form of the molding bag. The pressure is released and the press can be open to remove the formed ceramic component.