

The price of microwave chili powder drying sterilizer

Microwave drying depends on microwave heating. The heating mechanism of microwave is completely different from the traditional heating method (conduction, convection, radiation). When microwaves are irradiated to water containing materials, the polar molecules are arranged in an orderly way from the chaotic and nonpolar state because the water molecules are polar molecules. When the direction of the external electric field is changed repeatedly, the polar molecules are converted and swinging frequently. In the process of swinging, a large amount of heat is generated by the similar friction between the molecules, and the temperature of the material increases. Microwave heating means using the principle of dielectric loss to convert the microwave energy into the heat energy required by the material heating [1]. The material absorption heat is directly proportional to the loss factor of the material's dielectric. As the dielectric loss factor of water (or other solvent) is much larger than that of other substances, the molecules of water (or other solvents) absorb microwave energy first, and the water molecules move from the inside to the surface, continue to absorb microwave energy, and the water is discharged into water vapor, so that the purpose of drying is completed quickly.