



Microwave heating principle

Substances are divided into conductors, semiconductors, insulators. Insulator known as dielectric material, the dielectric material of polar molecules and non-polar molecules. Microwave frequency of 300 MHz to 300 GHz frequency electromagnetic wave, the wavelength of one meter a 1 mm. The dielectric material consists of non-polar molecules and polar molecules, in the high-frequency electromagnetic field of microwave, polar molecules from the original state to a random distribution of the orientation of the electric field according to the polarity arrangement, medium polar molecules from the original thermal motion state to follow an alternating electromagnetic field and microwave arrangement orientation, resulting in intense friction and heat. In this microscopic process, the microwave energy into heat within the media, the media presented as elevated temperature on the macro, which is the basic principle of microwave heating. Microwave heating is a dielectric material itself generates heat energy loss of an electric field, the conductive metal material, a radio wave can not penetrate the interior who is reflected, the metal material can not absorb the microwave.

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