



industry Microwave application (2)

Insect sterilization

Insecticidal microwave sterilizable at a lower temperature. Can deal with food, medicines, tobacco, wood, etc., fast heating rate from the material thickness, shape affected.

Desulfurization

Sulfur coal in the form of pyrite, pyrite coal has a higher ratio of the loss tangent, and therefore allows the use of microwave heating of pyrite selectivity obtained with the gas generating reaction, desulfurization. The coal is not affected. The method is based on the ideal duration of 0.1 seconds, a pulse wave intermittently heated, the pyrite is heated to a high temperature of 650 °C. This approach to sulfur effect, without expensive catalysts, save money, high energy efficiency, low environmental pollution.

Microwave Plasma Technology

Semiconductor manufacturing processes have microwave plasma technique, etching, sputtering, vapor deposition, oxidation of silicon; can also be used metals, alloys, non-metal surface treatment; for a plasma spectral analysis can detect dozen elements .

Medical treatment

Biological effects of microwave sub-thermal effects and non-thermal effects. Its thermal effect on health care can be microwave therapy, radiotherapy and chemotherapy diathermy cancer; also can use microwave heating of plasma, thawing frozen organs; also design microwave scalpel, surgery to stop bleeding fast, less bleeding.

Measuring

Microwave high accuracy, suitable for the production of continuous measurement and automatic control. Has been widely used in distance, temperature, speed and other aspects of thickness measurement.

Ceramic sintering

Microwave can be uniform densification of ceramic sintering, the maximum temperature of 2000 °C, get the large size of fine ceramics.

Chemical Industry

There are a wide range of microwave applications, such as digestion, extraction, hydrolysis, catalyzed reactions in chemistry.

Changsha Langfeng Metallic Material CO., Ltd professional manufacturer of the major products as following:

- 1)Metal Carbide powder(such as ZrC powder,NbC powder,Cr₃C₂ powder,VC powder,TaC powder,TiC powder,HfC powder,...), compound carbide powder,such as (Ta,Nb)C powder, Ti(C,N)powder,(W,Ti,Ta,Nb)C powder,etc.
- 2)Ti(C,N) cermet rods/strips and TiC cermet rods
- 3)Tile/glass cutting wheels