

HYDROTHERMAL AUTOCLAVE

REACTOR WITH TEFLON CHAMBER



Hydrothermal Reactor mainly made up of two parts; outer high-quality Stainless Steel jacket and inner Teflon liner or Teflon chamber. In the Teflon-lined autoclave, the reaction is carried out at maximum 240°C while the safe temperature is 200°C.

Reactors and Autoclaves containing liquid media are subjected to 2000 PSI pressure and temperature less than 200°C and after that two routes can be followed for the formation of ferrites by Hydrothermal reactions.

There are significant advantages of Hydrothermal synthesis method over others. Hydrothermal synthesis can generate nanomaterials which are not stable at elevated temperatures. Nanomaterials with high vapor pressures can be produced by the Hydrothermal method with minimum loss of materials.

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