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Solid Phase

Introduction

Heating heterogeneous reaction mixtures, thick media or solid phase systems suffers of inhomogeneous temperature distribution and stirring difficulties using conventional microwave instruments.

The innovative Solid-Phase setup offers the unique capability of physically rotate the reaction vessel, to achieve very homogenous bulk heating of slurries, viscous and solid reaction mixtures media.

The reaction temperature is controlled by a contact-less infrared sensor.

Furthermore, the Solid-Phase setup allows operations under normal atmosphere, inert gas, and vacuum.

Functionalization and modifications of materials, polycondensation, coating, dehydration of natural oils are some of the most common area of application.

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