

### 13. Chemical Technology and Industry

#### **SHORT BIBLIOGRAPHY OF SCIENTIFIC STUDIES IN THE FIELD OF DESIGNING BASIC TECHNOLOGICAL PROCESSES AND EQUIPMENT FOR ULTRASONIC MANUFACTURE OF HIGH-STRENGTH REACTOPLASTIC COMPOSITE FIBER MATERIALS**

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The problem of choosing the effective values of the regime parameters of the basic processes for the production of reactoplastic composite materials (PCM) reinforced with fibrous fillers, which have a predetermined set of properties, as well as directed physicochemical modification of existing PCMs in order to improve their operational properties, remains an urgent task and up to now.

Production PCMs and manufacturing products from them is a relatively complex technological cycle, based on the need to know certain physical and chemical patterns. Depending on the conditions and the regime parameters of the processes for obtaining PCMs, their physical and mechanical properties change.

Therefore, it seems advisable to consider only creation of a scientifically based system of representations, which covers specific issues related to the processes of producing PCM using physical and chemical modification, in particular, ultrasonic.

A short bibliography of the most significant scientific studies covering long-term research results in the field under consideration is presented below [1 – 40].

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