

Effect of Microwave Fields on the Properties of Silicates with an Aluminum-Sodium-Chloride Modifier

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Abstract

© 2017 Springer Science+Business Media New York The results of microwave treatment of silicates (bentonite clay and diatomite), the impact of microwaves on the structure and technological characteristics of water suspensions of silicates, and the physical and mechanical properties of the ceramic material obtained on their basis are examined. The effect of additives (aluminum oxide hydrosol, stabilized with hydrochloric acid, and sodium chloride) on the processes accompanying heating of water suspensions of silicates and the physical-mechanical properties of the ceramic material based on them is investigated.

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