FOUNDRY REVIEW
5-6’2019

- SUMMARIES-

S. PUZIO, J. KAMIŃSKA, K. MAJOR-GABRYŚ, M. ANGRECKI, M. HOSADYNA-KONDRACKA

MICROWAVE HARDENED MOLDING SAND WITH INORGANIC BINDERS FOR ABLATION CASTING

The aim of this work is to demonstrate the possibility of using environmentally friendly molding sands with hydrated sodium silicate for ablation casting molds. the ablation casting technology is intended primarily for making casts in sand molds with diversified wall thickness and complex shapes.

This paper presents the effect of binder content and curing time on the bending strength Rg of molding sands with binders based on hydrated sodium silicate hardened in microwave curing technology. The aim of the research is to develop an optimal molding sand composition that will provide the strength necessary to form a mold for carrying out the ablative casting process. the applied sands must simultaneously guarantee the susceptibility of the mold to the destructive action of the ablative medium, which is water.

The tests have shown that microwave curing provides satisfactory strengths with low binder content.

D. WILK-KOŁODZIEJCZYK

SUPPORTING THE MANUFACTURING PROCESS OF METAL PRODUCTS WITH THE METHODS OF ARTIFICIAL INTELLIGENCE

M.SKOWRON

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CONGRESS OF THE NORWEGIAN FOUNDRY ASSOCIATION 2019, KRAKOW, POLAND