

New Special Concretes

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ABSTRACT

No long time ago, technical publications insisted on the importance of cement dosage reducing in the refractory concretes. The advantages of this technological procedure, in the case of noble aggregates (i.e. tabular alumina, corundum, bauxite or silicon carbide) are reflected in important benefits of these concretes. The decrease of the hydraulic binder (cement) dosage or even its removal from monolithic refractory materials shows the following positive consequences: it decreases the water supply, which is a target directly and closely correlated with the porosity of concrete, it decreases the loss of mechanical resistance of concrete on the critical temperature range, and it improves the pyroscopic properties of concrete, particularly its refractoriness. According this reason the work performs some results regarding special concretes with low cement content. The paper shows data related to new special concretes with special admixtures, used in contact with the molten metals, for the domestic wastes incinerators linings and in reducing medium, including in the coal processes.

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