

The invention relates to the processes for preparation of cement clinker in revolving furnaces of dry and wet production of cement on cement plants, where the double-way feed of revolving furnaces is used: from the side of the cold end – by the raw slurry or raw meal of the prescribed chemical composition, and from the side of the hot end – by the mineral raw additives of natural or artificial origin in their natural state or in a form of reduced fraction. From the side of the hot end of the furnace on the layer of clinker burning hot to temperature of $+1200^{\circ}\text{C}$ through roof of a burner end of the furnace or through the layer of roof or a backwall of a cooler duct, toward the auxiliary air, the primary kaolin is given in quantity to 1.5 t per ton of clinker, which comes out the furnace. In such a case clinker is quenched, and kaolin is heated to $700-1000^{\circ}\text{C}$, which contributes to structural transformation of hydrargillite and kaolinite phases with a formation of high-alumina compounds. The increase in productivity of the revolving furnace, decrease in value and increase of hydraulic activity of the clinker and cement are provided.