

INFLUENCE OF THE ADDITION OF HEAVY ASHES OF MINERAL COAL IN THE
PHYSICAL PROPERTIES OF CERAMIC MATERIALS

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key words: heavy ash, coal mineral, ceramic material

The heavy ashes of coal mineral are originated by-products of the combustion of the mineral coal in thermal electric plant . The physical characteristics, chemistries and mineralogical of the heavy ashes they are compatible with several raw materials used in the ceramic industries of coating, what indicates a possibility of substitution partial or integral of these raw materials for this by-product. Inside of this context, this work has as objective evaluates the effect of the addition of that by-product in the properties physical absorption of water and flexural mechanical strength of ceramic . For the formulation of the ceramic masses the experimental planning was used {3,3}, originating ten formulations of the three components (two different clays types and heavy ash of mineral coal). The ceramic materials developed with addition of heavy ashes of mineral coal they presented more appropriate values of absorption of water and flexural strength module, compared with a material industrial ceramic pattern developed with the use of conventional raw materials.