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Chemical and mineralogical characterization of the cupola slag generated in the “9 de Abril” smelter of Sagua la Grande

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Slags are final by-products involved in the iron and steelmaking process. The general tendency in the foundry workshops in Cuba is to consider slag as a waste material and deposit it in the yards of the workshops or in municipal landfills affecting the environment. Its composition and characteristics depend and vary widely according to the raw material used, the technology employed and the cooling rate once extracted from the furnace. The chemical and mineralogical characterization of slag generated in cupola furnace in the “9 de Abril” smelter of Sagua la Grande has been performed using techniques such as: EDX, XRD and FTIR.

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