

Research Article

Characterization of Ladle Furnace Slag from Carbon Steel Production as a Potential Adsorbent

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A promising type of steel slag for applications is the ladle furnace (LF) slag, which is also known as the basic slag, the reducing slag, the white slag, and the secondary refining slag. The LF slag is a byproduct from further refining molten steel after coming out of a basic oxygen furnace (BOF) or an electric arc furnace (EAF). The use of the LF slag in further applications requires knowledge of its characteristics. The LF slag characterization in this paper has been performed using the following analytical methods: chemical analysis by energy dispersive spectrometry (EDS), mineralogical composition by X-ray diffraction (XRD), surface area properties by the Brunauer-Emmett-Teller (BET) and the Barrett-Joyner-Halenda (BJH) methods, surface chemistry by infrared absorption (FTIR) spectroscopy, and morphological analysis by scanning electron microscopy (SEM). The results showed that the main compounds are calcium, silicon, magnesium, and aluminium oxides, and calcium silicates under their various allotropic forms are the major compounds in the LF slag. Surface area properties have shown that the LF slag is a mesoporous material with relatively great BET surface area. The ladle furnace slag is a nonhazardous industrial waste because the ecotoxicity evaluation by its eluate has shown that the LF slag does not contain constituents which might in any way affect the environment harmfully.

1. Introduction

Many million tons of slag are generated as it is a byproduct of iron- and steelmaking industry during the separation of the molten iron and steel from impurities. There are four types of iron and steel industry slags, namely, the blast furnace (BF) iron slag, the basic oxygen furnace (BOF) the steel slag, the electric arc furnace (EAF) steel slag, and the ladle furnace (LF) basic slag, also called the secondary refining slag or the white slag. The ladle furnace basic slag is produced in the final stages of steelmaking, when the steel is desulfurized in the transport ladle, during what is generally known as the secondary metallurgy process [1, 2]. The most important functions of the secondary refining processes are the final desulfurization, the degassing of oxygen, nitrogen, and hydrogen, the removal of impurities, and the final decarburization (done for ultralow carbon steels) [3].

The increase in steel consumption is thus the cause of the generation of slag, and, consequently, the growth in slag volume had impact on developing various methods of

slag utilization. Relevant data published during the past two decades have demonstrated the suitability of some of these materials, from both a technical and an economic perspective [4, 5]. Slags from iron and steel production have long been regarded as useful materials in building and civil works. Steel slag can be utilized in many different areas such as soil conditioners, fertilizers, sinter material, production of cement and concrete, and so forth [6]. Each type of slag has its own characteristics such as the use of ground granulated BF iron slag, as an addition to the Portland cement. Furthermore, BOF slag and EAF slag are used in asphaltic mixes and road-base layers. The practical application of the LF slag differs from the latter due to its specific characteristics. Good examples are found in agriculture for the correction of soil acidity and in cement industry as raw material for the Portland-clinker fabrication [7].

With the rapid development of industries such as metal plating facilities, mining operations, fertilizer industries, tanneries, batteries, paper industries, pesticides, and so forth, heavy metals wastewaters are directly or indirectly discharged

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