LF 精炼渣脱硫力量优化与循环利用

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摘要：LF 钢包精炼炉是冶炼优质钢常用的精炼设备，它通过电弧加热、造复原精炼渣和底吹氩搅拌等方法，为快速脱氧、脱硫、均匀钢水温度、成分并去除钢液中有害夹杂物供给了有效的精炼手段，在纯洁钢冶炼方面发挥了巨大作用。LF 精炼炉优化了转炉和连铸之间的工艺连接而且加快了生产节奏，随着对纯洁钢需求的不断增加，用 LF 炉对钢液进展脱硫操作已成为大多数钢厂普遍承受的工艺方法，于是优化精炼渣系和各种工艺因素便成为生产和争论中的重点内容。同时，LF 精炼废渣带来的堆放占地和环境污染日益突出等问题，开展精炼废渣资源循环利用的争论对于环境保护和钢铁企业的节能减排具有重要意义。结合国内外学者对脱除 LF 精炼渣中硫进展的大量争论，促进了 LF 精炼渣综合利用，对实现节能减排有重要的意义。

关键词：LF 精炼渣；脱硫；综合利用

Optimization andCyclic Utilization of LF Refining Slag Desulfurization Capacity

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ABSTRACT: LF ladle refining furnace smelting high-quality steel used in the refining equipment, which by arc heating, causing reduction refining slag and bottom argon stirring methods for rapid deoxidation, desulfurization,uniform steel temperature, composition and removing the liquid steel harmful inclusions provided an effective means of refining, smelting steel in pure plays a significant role. LF refining furnace to optimize the process of convergence between the converter and continuous casting and speed up the pace of production, With the increasing demand for clean steel, with LF furnace of molten steel desulfurization process operation has become a widely used method for most mills so to optimize refining slag and various technological factors of production and research has become the focus of the content. At the same time, the LF slag stacking area and environmental pollution have become increasingly prominent problems, to carry out research on refining resources recycling waste has important significance for environmental protection and energy saving and emission reduction of iron and steel enterprises. Based on a large amount of sulphur in the slag of the domestic and foreign scholars on the removal of LF refining, promote the comprehensive utilization of LF refining slag, have the important significance for the realization of energy saving and emission reduction.

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