

炼钢

LIANGANG

(双月刊 1985 年创刊)

第 33 卷 第 6 期

2017 年 12 月

目 次

· 转炉及电炉冶炼 ·

260 t 转炉冶炼极低磷钢的生产实践 赵雷, 王金辉, 徐国义, 等(1)

120 t 转炉少渣冶炼工艺研究和实践 富强, 郭晓春, 王志强, 等(5)

100 t 顶底复吹转炉氧枪喷头优化的试验研究 王鹏, 印传磊, 吴伟, 等(9)

转炉应用助熔剂调渣的炼钢工艺研究 沈继胜, 赵卫东, 陈守俊, 等(15)

铁水一步法冶炼 400 系不锈钢转炉脱磷可行性分析 史彩霞, 游香米(20)

· 炉外精炼 ·

干式机械泵与蒸汽喷射泵的技术应用与比较 李波, 李梦英, 崔家峰, 等(26)

· 凝固与浇铸 ·

单流中间包结构优化及工业试验 林路, 李翔, 包燕平(30)

无取向硅钢薄板坯连铸液面波动和水口结瘤控制 李大鹏, 薛文辉, 吴华章, 等(37)

倒角结晶器保护渣在含硼钢的开发与应用 赵春宝, 李晓阳, 陈永艳, 等(42)

板坯连铸机无水封顶技术的开发与应用 曹磊, 王国连, 田志伟, 等(47)

小方坯连铸漏钢形成原因分析与控制 苏笃星, 邹长东, 周青峰(51)

· 产品工艺及质量控制 ·

合金弹簧钢 51CrV4 中镁铝尖晶石夹杂行为研究 张波, 彭明耀, 曾斌, 等(57)

重轨钢中大颗粒夹杂物的来源探讨 齐江华, 郑建国, 陈光友, 等(62)

· 节能环保 ·

转炉高温烟气喷吹煤粉回收煤气工业试验研究 周建安, 蒋学凯, 谢剑波, 等(67)

高温改性及风淬处理对钢渣易磨性影响的工业性试验研究 饶磊, 吴六顺, 周云, 等(73)

· 信 息 ·

CONTENTS IN BRIEF**• BOF & EAF Steelmaking •**

Production practice for super low phosphorus steel in 260 t converter

..... ZHAO Lei, WANG Jinhui, XU Guoyi, et al(1)

Research and practice of less slag smelting technology in 120 t converter

..... FU Qiang, GUO Xiaochun, WANG Zhiqiang, et al(5)

Optimization of oxygen lance nozzle for a 100 t top and bottom combined blowing converter

..... WANG Peng, YIN Chuanlei, WU Wei, et al(9)

Study on steelmaking process with slag conditioner in converter

..... SHEN Jisheng, ZHAO Weidong, CHEN Shoujun, et al(15)

Feasibility analysis on converter dephosphorization process of one step 400 series stainless steel production

..... SHI Caixia, YOU Xiangmi(20)

• Secondary Refining •

Technology application and comparison on dry mechanical pumps and steam jet pumps

..... LI Bo, LI Mengying, CUI Jiafeng, et al(26)

• Solidification & Continuous Casting •

Structural optimization and industrial tests of single flow tundish

..... LIN Lu, LI Xiang, BAO Yanping(30)

Mold level fluctuation and submerged entry nozzle clogging control of thin slab continuous casting for non-oriented silicon steel

..... LI Dapeng, XUE Wenhui, WU Huazhang, et al(37)

Develop and application of chamfering-mold powder for the boron bearing steel

..... ZHAO Chunbao, LI Xiaoyang, CHEN Yongyan, et al(42)

Development and application of anhydrous capping technology in CC slab

..... CAO Lei, WANG Guolian, TIAN Zhiwei, et al(47)

Formation mechanism and control measures of breakout for billet continuous casting

..... SU Duxing, ZOU Changdong, ZHOU Qingfeng(51)

• Product Process & Quality Control •

Research on $\text{MgO}\cdot\text{Al}_2\text{O}_5$ spinel inclusions in alloy spring steel 51CrV4

..... ZHANG Bo, PENG Minyao, ZENG Bin, et al(57)

Discussion on sources of large inclusions in heavy rail steel

..... QI Jianghua, ZHENG Jiangguo, CHEN Guangyou, et al(62)

• Energy Conservation & Environmental Protection •

Industrial testing of high quality converter gas recovery by injecting pulverized coal into the high temperature gas of converter

..... ZHOU Jianan, JIANG Xuekai, XIE Jianbo, et al(67)

Industrial test research on grindability of steel slag by high temperature modifying and air quenching

..... RAO Lei, WU Liushun, ZHOU Yun, et al(73)