

ISSN 1002-1043
CN 42-1265/TF
CODEN' LGIAAZ

炼钢

STEELMAKING

Vol.34 / No.1 / 2018



ISSN 1002-1043



万方数据

主办单位：武汉钢铁（集团）公司

中国金属学会

炼钢

LIANGANG
(双月刊 1985 年创刊)

第 34 卷 第 1 期
2018 年 2 月

目 次

· 转炉及电炉冶炼 ·

首钢转炉炼钢高效复吹技术开发与应用·····	高攀,李海波,郭玉明,等(1)
电弧炉炼钢流程洁净化冶炼技术·····	朱荣,魏光升,唐天平(10)
60 t 转炉炉渣气化脱磷后循环利用试验研究·····	薛月凯,王书桓,李晨晓,等(20)

· 凝固与浇铸 ·

八流中间包结构优化水模型试验研究·····	翟晓毅,颜慧成,杨海滨,等(25)
GCr15 钢大方坯传热凝固数值模拟·····	王德炯,焦帅,殷皓,等(30)

· 产品工艺及质量控制 ·

SPHC 板坯表面和皮下夹渣的研究·····	薛正良,胡智超,李平,等(36)
IF 钢生产过程中 Al-Ti-Mg-O 类夹杂物的演变行为·····	肖鹏程,张仕骏,刘增勋,等(44)
高级别焊丝钢磷硫控制工艺优化·····	罗衍昭,季晨曦,肖茂元,等(51)
稀土元素处理钢的研究进展及应用前景·····	龙琼,伍玉娇,凌敏,等(57)

· 环保及副产品回收利用 ·

风碎和热闷组合技术在线处理转炉钢渣实践·····	饶磊,董元麓,王珏,等(65)
--------------------------	-----------------

· 其 它 ·

石灰石与石灰在高 FeO 渣中的溶解速度研究·····	郝赳赳,鲁华,李宏(71)
2CaO·SiO ₂ 对炉渣中磷富集行为的影响·····	詹起梅,王多刚(75)

CONTENTS IN BRIEF

• BOF & EAF Steelmaking •

Development and application of high efficiency blowing technology of converters in Shougang
..... GAO Pan, LI Haibo, GUO Yuming, et al(1)

Technologies of purification production in electric arc furnace steelmaking processes
..... ZHU Rong, WEI Guangsheng, TANG Tianping(10)

Experimental study on recycle utilization of slag after gasification dephosphorization in 60 t converter
..... XUE Yuekai, WANG Shuhuan, LI Chenxiao, et al(20)

• Solidification & Continuous Casting •

Water modeling experiment research on structural optimization of eight-strand tundish
..... ZHAI Xiaoyi, YAN Huicheng, YANG Haibing, et al(25)

Numerical simulation of heat transfer and solidification in GCr15 steel bloom
..... WANG Dejong, JIAO Shuai, YIN Hao, et al(30)

• Product Process & Quality Control •

Research on surface and subsurface slag inclusion in SPHC slabs
..... XUE Zhengliang, HU Zhichao, LI Ping, et al(36)

Evolution of Al-Ti-Mg-O inclusions during refining and casting process of interstitial free steel
..... XIAO Pengcheng, ZHANG Shijun, LIU Zengxun, et al(44)

Optimization of phosphorus and sulfur in high-grade welding wire steel production process
..... LUO Yanzhao, JI Chenxi, XIAO Maoyuan, et al(51)

Research and prospect on rare earth treated steel
..... LONG Qiong, WU Yujiao, LING Min, et al(57)

• Environmental Protection & By-product Utilization •

Practice of on-line treatment of converter slag by air-granulated and steam self-disintegrated technology
..... RAO Lei, DONG Yuanchi, WANG Jue, et al(65)

• Others •

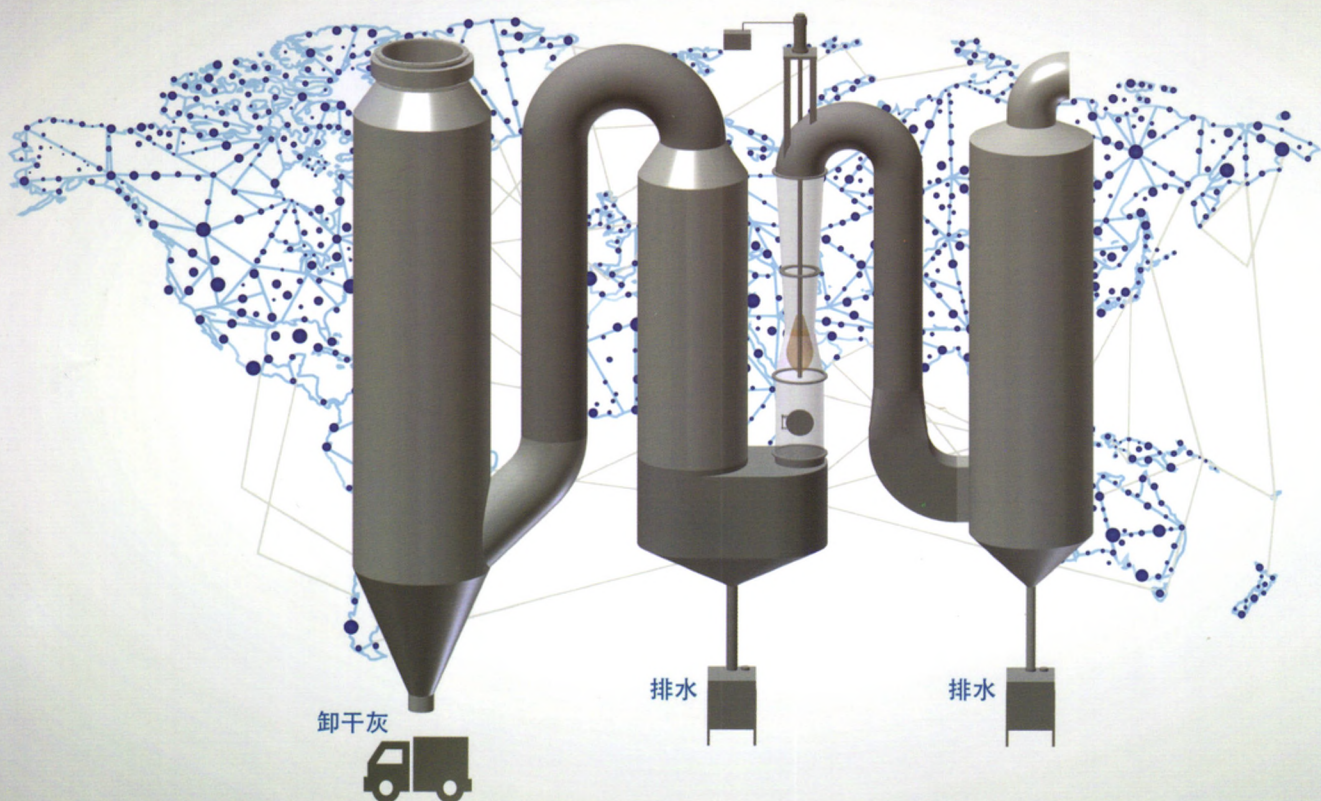
Research on the dissolution rate of limestone and lime in high FeO slag
..... HAO Jiujiu, LU Hua, LI Hong(71)

The effect of 2CaO•SiO₂ on the enrichment behavior of phosphorous in slag
..... ZHAN Qimei, WANG Duogang(75)



Spraying Systems Co.[®]

斯普瑞喷雾系统（上海）有限公司 环保事业部



与世界分享环保科技

SD半干法[™]转炉除尘系统

主要特点及效果

烟囱排放：确保排放长期、稳定达标30、20mg/Nm³，甚至更低

节水节电：风机和水处理节电15%~30%，节水~30%

废水利用：蒸发冷却塔可利用焦化废水、脱硫废液、浓盐水等废水进行降温

出干灰：蒸发冷却塔可出30%~80%的干灰，干灰可直接进入转炉利用。
节省周转费用，水处理成本降低

风机维护：风机叶轮维护周期达到90天以上

运行操作：运行稳定、操作简单、维护量少

400.88.77729. | marketing@spray.com.cn | www.spray.com.cn