

连铸结晶器保护渣基础研究及应用专刊

目 次

连铸结晶器保护渣研究进展及趋势	唐 萍,高金星,文光华(1)
先进高强度钢连铸保护渣的发展与展望	张 磊,王万林(20)
非牛顿流体保护渣剪切变稀特性分析	朱立光,袁志鹏,许 莹,等(25)
基于差热分析对 CaO-SiO ₂ -Al ₂ O ₃ 系保护渣结晶动力学的研究	余 亮,文光华,朱先飞,等(31)
高温激光共聚焦显微镜在熔渣与钢润湿性能研究中的应用	贾成橙,唐 萍,米晓希,等(38)
高频磁场下连铸保护渣渣膜特性研究	王杏娟,樊亚鹏,朱立光,等(44)
高铝钢用低 Li ₂ O 保护渣的开发研究	张 晨,蔡得祥(51)
高强汽车板连铸坯纵裂分析与保护渣优化	肖鹏程,朱立光,王杏娟,等(56)
包晶钢薄板坯保护渣渣膜矿相结构特征及形成机理	刘 磊,韩秀丽,李鸣铎,等(63)
低碳铝镇静钢冷轧起皮缺陷成因与保护渣优化	曾建华,马晓涛,吴国荣,等(68)
保护渣绝热保温性能计算模型研究	陈俊孚,万恩同,李丽坤,等(74)
TRIP590 热轧卷表面裂纹形成原因及保护渣优化研究	杨春宝,王宝动,裴 培(78)

Special Issue of Research and Application of Mold Flux for Continuous Casting**CONTENTS IN BRIEF**

Progress and trends of research on mold fluxes used in continuous casting	TANG Ping, GAO Jinxing, WEN Guanghua(1)
Development and prospect of mold fluxes for the casting of advanced high strength steels	ZHANG Lei, WANG Wanlin(20)
Shear thinning property analysis of non-Newtonian fluid mold flux	ZHU Liguang, YUAN Zhipeng, XU Ying, et al(25)
Investigation on crystallization kinetics of mold fluxes based CaO-SiO ₂ -Al ₂ O ₃ by using the differential scanning calorimetry	YU Liang, WEN Guanghua, ZHU Xianfei, et al(31)
Application of the confocal laser scanning microscope method in study on wettability of solid steel by molten slags	JIA Chengcheng, TANG Ping, MI Xiaoxi, et al(38)
Study on the crystallization characteristics of continuous casting mold flux under high frequency magnetic field	WANG Xingjuan, FAN Yapeng, ZHU Liguang, et al(44)
Investigation on development of low-Li ₂ O mold fluxes used for high aluminum steel	ZHANG Chen, CAI Dexiang(51)
Analysis of longitudinal cracks and optimization of mold flux for high strength automotive steel slab	XIAO Pengcheng, ZHU Liguang, WANG Xingjuan, et al(56)
Mineralogical structure and formation mechanism of flux film for peritectic steel and thin slab casting	LIU Lei, HAN Xiuli, LI Mingduo, et al(63)
Analysis the surface peeling of cold-rolled and optimization slag of low carbon aluminum killed steel	ZENG Jianhua, MA Xiaotao, WU Guorong, et al(68)
Research of model for thermal insulation performance of mold flux	CHEN Junfu, WAN Entong, LI Likun, et al(74)
Investigation on the surface crack of TRIP590 hot rolled strip and the optimization of mold flux	YANG Chunbao, WANG Baodong, PEI Pei(78)