

耐火材料

REFRACTORIES

双月刊

美国《化学文摘(CA)》和《剑桥科学文摘》、荷兰Elsevier《斯高帕斯数据库(SCOPUS)》、俄罗斯《文摘杂志》等收录期刊

因为专一，所以专业
Since 2003/十多年来我们只做矾土/

河南兴亚能源有限公司
www.bauxitechina.com



回转窑、倒焰窑矾土熟料
均化矾土熟料

电话: 0391-6798686 6798888
业务联系: 19939118916/18539116599
E-mail: xnyxs2012@163.com
地址: 河南省济源市玉川产业集聚区



中钢集团洛阳耐火材料研究院有限公司 主管、主办

万方数据

2018 · 5 | 10月出版

第 52 卷 (总第 353 期)

目 次

研究开发

- 321 不同含铝微粉对原位莫来石结合SiC多孔陶瓷膜支撑体性能的影响.....罗志勇, 刘开琪, 韩伟, 敖雯青, 肖丽俊
326 发泡法-溶胶凝胶成型工艺制备莫来石晶须 王龙庆, 冯涛, 王刚, 董宾宾, 袁波, 张琪
330 Fe_2O_3 和 Al_2O_3 促进 MgO 烧结的机制研究.....薛宝达, 刘东方, 刘文凯, 马向东
334 刚玉质浇注料气孔孔径与透气度灰色关联度分析.....陈建军, 王战民, 曹喜营, 刘巍
338 钛铝酸钙加入量对出铁沟浇注料抗氧化性的影响.....姜晨, 聂建华, 邱文冬, 梁永和, 崔秀君, 许久林
342 再生铬刚玉骨料对刚玉-尖晶石浇注料性能及显微结构的影响 赵瑞霞, 李纪伟, 毕振勇, 邹桥刚
347 焦宝石基结构梯度耐火材料的设计及热应力分析.....刘巍, 曹喜营, 冯海霞, 陈建军

生产应用

- 354 发泡法制备轻质莫来石结合氧化铝空心球制品的性能研究 陈阔, 吕艳华, 袁波, 王刚, 曹喜营, 曹迎楠, 韩建燊
358 转炉出铜沟用新型环保浇注料的研制.....李晨晨, 王凌云, 梁永和, 秦文超, 李喜定
362 MoSi_2 - SiC 复合材料的制备及抗热震性能研究 刘云, 常赫, 万龙刚, 黄志刚, 李杰, 王文武
365 MoSi_2 - SiC 复合材料的制备及其抗氧化性研究 雷乃旭, 王文武, 万龙刚, 吴吉光
368 引入镁砂对矾土基刚玉-莫来石均质料性能的影响.....安建成, 葛铁柱, 李向威, 钟香崇
372 Carbores P加入量对镁碳砖性能的影响 曾立民, 卓雄, 陶进
375 炭黑N990加入量对 Al_2O_3 - SiC -C出铁沟浇注料性能的影响.....郭绍彬, 秦红彬, 韦袆, 张海燕
378 水煤浆气化炉工作衬关键部位的设计优化.....孙欣

综合评述

- 382 第60届Aachen国际耐火材料会议论文选读.....高振昕
389 连铸中间包用干式振动料的研究进展.....徐勇
396 工业废渣制备多孔陶瓷的研究进展.....任鑫明, 马北越, 李世明, 张亚然, 于景坤, 刘国齐, 李红霞

综合信息

《耐火材料》杂志2019年征订启事(325); 《耐火材料》连续8次入编《中文核心期刊要目总览》(357)

Contents

- 321** Effects of different alumina-containing micropowders on properties of *in-situ* mullite-bonded SiC porous ceramic membrane support *Luo Zhiyong,Liu Kaiqi,Han Wei,Ao Wenqing,Xiao Lijun*

326 Preparation of mullite whiskers by foam-gel casting *Wang Longqing,Feng Tao,Wang Gang,Dong Binbin,Yuan Bo,Zhang Qi*

330 Promoting mechanism of Fe_2O_3 and Al_2O_3 for MgO sintering *Xue Baoda,Liu Dongfang,Liu Wenkai,Ma Xiangdong*

334 Grey correlation analysis of pore size and air permeability of alumina based castables *Chen Jianjun,Wang Zhanmin,Cao Xiying,Liu Wei*

338 Influence of calcium alumino-titanate addition on oxidation resistance of castables for iron runners *Jiang Sheng,Nie Jianhua,Qiu Wendong,Liang Yonghe,Cui Xiujun,Xu Jiulin*

342 Effect of recycled chrome corundum aggregates on properties and microstructure of alumina-spinel castables *Zhao Ruixia,Li Jiwei,Bi Zhenyong,Gao Qiaogang*

347 Design and thermal stress analysis of structural gradient flint clay based refractories *Liu Wei,Cao Xiying,Feng Haixia,Chen Jianjun*

354 Preparation and properties of lightweight mullite bonded alumina hollow sphere products by foam-gel casting *Chen Kuo,Lyu Yanhua,Yuan Bo,Wang Gang,Cao Xiying,Cao Yingnan,Han Jianshen*

358 Development of a new type of environment-friendly castable for troughs of copper converter *Li Chenchen,Wang Lingyun,Liang Yonghe,Qin Wenchao,Li Xiding*

362 Preparation and thermal shock resistance of MoSi_2-SiC materials *Liu Yun,Chang Zhen,Wan Longgang,Huang Zhigang,Li Jie,Wang Wenwu*

365 Preparation and oxidation resistance of MoSi_2-SiC materials *Lei Naixu,Wang Wenwu,Wan Longgang,Wu Jiguang*

368 Effects of magnesia introduction on properties of bauxite-based corundum mullite homogenized materials *An Jiancheng,Ge Tiezhu,Li Xiangwei,Zhong Xiangchong*

372 Effect of Carbores P addition on properties of magnesia carbon brick *Zeng Limin,Zhuo Xiong,Tao Jin*

375 Effect of carbon black N990 addition on properties of $\text{Al}_2\text{O}_3-\text{SiC}-\text{C}$ castables for iron troughs *Guo Shaobin,Qin Hongbin,Wei Yi,Zhang Haiyan*

378 Design optimization of key parts of working lining for coal slurry gasifier *Sun Xin*

382 Selected readings of the 60th International Colloquium on Refractories (Aachen) *Gao Zhenxin*

389 Research progress of dry vibrating mixes for continuous casting tundish *Xu Yong*

396 Research progress on porous ceramics prepared from industrial waste slag *Ren Xinming,Ma Beiyue,Li Shiming,Zhang Yaran,Yu Jingkun,Liu Guoqi,Li Hongxia*

Sponsor : Sinosteel Luoyang Institute of Refractories Research
Co., Ltd.(LIRR)

Editor and Publisher : The Editorial Board of NAIHUO CAILIAO

Editor-in-chief : PENG Xiqiao

Add : 43 Xiyuan Road,Luoyang,Henan 471039,China

Tel : +86-379-64205959

Fax : +86-379-64205970

E-mail : nhcl@nhcl.com.cn

Web Site : <http://www.nhcl.com.cn>, www.china-refractories.cn

Subscription rate : USD 150(overseas including air mail postage)

Sponsored by Sinosteel Luoyang Institute of Refractories Research Co.,Ltd. (LIRR) ,established in 1966,Naihuo Cailiao(Refractories) is the only technical journal in Chinese in China's refractories industry that reports current situations of the R & D, production and application of refractories in China together with the development status and trend of refractories science and technology abroad. Naihuo Cailiao is published bimonthly and distributed both at home and abroad with the annual distribution circulation of about 20 thousand copies.

Naihuo Cailiao also affords space for advertisement which is beneficial to the manufacturers and users home and abroad to establish connection between them,to promote production and sales and especially help foreign companies share China's market.