



Crystallisation control for fluorine-free metallurgical slags

By Jeferson Leandro Klug

LAP Lambert Academic Publishing Okt 2014, 2014. Taschenbuch. Book Condition: Neu. 220x150x6 mm. This item is printed on demand - Print on Demand Neuware - The continuous casting process is applied to the majority of steel grades by most steel manufacturers. Good understanding and control of phenomena in the mould during production of steel are essential to the success of the process. The slags used in the mould are very important when considering casting results, e.g., the quality of the steel slabs and sticking severity. The mould slags ultimately have an influence on the capacity of the caster, i.e., how fast it is possible to cast with a good quality and without breakouts caused by sticking. During continuous casting process, the presence of crystals in mould slags has a decisive effect on both the lubrication and the heat transfer rate between the mould and the steel strand. Once the mould powder is melted on the top of the liquid steel and the mould slag infiltrates between the mould and the strand surface, the liquid slag is exposed to different cooling paths that can promote or prevent crystallisation. In fact it is common to see glassy parts of the slag...



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