



Modeling of the Formation of AlN Precipitates During Solidification of Steel

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Received 13.07.2012; accepted in revised form 04.09.2012

Abstract

The study was carried out computer simulations of the formation process of AlN precipitates in the solidification of steel. The chemical composition of steel and non-metallic inclusions formed was determined using the commercial software FactSage. Calculated amount of precipitates formed during cooling of steel between the liquidus and solidus temperatures under conditions of thermodynamic equilibrium. In parallel, the computations were performed using your own computer program. It was found that aluminum nitride is formed at the final stage of solidification, and the condition of its formation is low oxygen content in steel.

Keywords: Computer simulation, Aluminum nitride, Solidification of steel, Continuous casting of steel, Silicon steel

1. Introduction

Formation of non-metallic inclusions in steel ingot obtained in continuous casting machine (CCM) is a complex process. The chemical composition, size and spatial distribution influence the structure and properties of cast ingot. The initial non-metallic inclusions resulting from steel de-oxidation are in major part removed in ladle, mainly during argon purging and the remainder should be removed in castin tundish. In the ideal case, the steel tapped into the casting mould might be almost inclusions free. However, in casting mold new inclusions are produced in liquid steel for two reasons: decrease of equilibrium solubility product with decreasing temperature and segregation of liquid steel components at the solidification front. These secondary inclusions may play an important role in structure formation. The development of technology of steel refining in ladle and casting tundish, so called tertiary metallurgy, allows for assure the relevant conditions for required structure and properties of the ingot. In high grade steels and specific purpose steels the kind of emerging inclusions, their chemical composition, dimensions and

total amount are crucial for optimal steel properties. The present work deals with the process of AlN precipitates formation during steel solidification. The AlN play very important role in steel structure formation, which is particularly important in obtaining high magnetic properties of grain oriented high silicon steel [1]. As aluminum shows high chemical affinity to both oxygen and nitrogen in steel, the correct determination of the conditions favourable for AlN formation is rather complicated task [2], [3] [4], [5]. The aim of the present work was the computer simulation of steel components distribution between phases, with special focus on AlN formation. The obtained results are verified with the results of steel sample analysis by means of transmission electron microscopy.

2. The object of research

The simulation of AlN precipitation in the course of steel solidification in continuously cast ingot was carried out for high silicon grain oriented steel (Polish designation ET2), assigned for

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