

ALUMINUM MELT CLEANLINESS PERFORMANCE EVALUATION USING PoDFA (POROUS DISK FILTRATION APPARATUS) TECHNOLOGY

Carmen STANICA¹, Petru MOLDOVAN²

Prezența ineluaților nemetaleice solide în aliajele de aluminiu poate provoca scăderea valoarelor proprietăților mecanice ale produselor termice, creșterea porosității gazelor, a prelașării și a porosității la suprafață și a calității slabă a suprafeței.

Tehnicii pentru determinarea ineluaților pot fi: metalografie cu microscop, analize chimice, teste volumetrice, tehnici mecanico-structurale și altele.

Scopul lucrării este să studieze ineluații poroziști rezultați din aliaj de aluminiu 5083 prin tehnica PoDFA.

Datele obținute prin analiză arată că probele din aliaj 5083 sunt puțin conținute de ineluații care se situează între 0.011 mm²/kg și 0.025 mm²/kg, principalele ineluații fiind TiB₂, Al₂C₆, Al₂O₃, MgO, spinel și material refractor.

The presence of solid non-metallic inclusions in aluminum alloys can cause reduction in mechanical properties of castings, increased gas porosity, poor machinability, decrease in fluidity and poor surface quality.

Techniques for inclusions assessment can be: quantitative metallography, chemical analysis, volumetric tests, mechanico-structural techniques and so on.

The focus of this paper is to study the assessment of melt cleanliness in 5083 aluminum alloy using PoDFA technique.

Analysing data reflect the cleanliness of 5083 alloy actually sampled. The inclusions content was between 0.011 mm²/kg and 0.025 mm²/kg, the main inclusions being TiB₂, Al₂C₆, Al₂O₃, MgO, spinel and refractory material.

Keywords: aluminum, cleanliness, PoDFA, inclusions

1. Introduction

Aluminum alloys are characterized by their low specific weight, low melting point, negligible gas solubility with the exception of hydrogen, excellent castability, good machinability, and good corrosion resistance. Premium quality castings are an essential requisite for the critical structural components used in automotive and aeronautics. The production of such castings requires that inclusions and porosity be minimized (or even eliminated) to surpass their

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Aluminum Melt Cleanliness Performance Evaluation Using Podfa

Shasha Hu

Aluminum Melt Cleanliness Performance Evaluation Using Podfa:

The Top Books of the Year Aluminum Melt Cleanliness Performance Evaluation Using Podfa The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have enthralled audiences this year.

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Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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web tous les dangers et de toutes les chimeres personne ne sait s il existe le labyrinthe sert de pretexte pour fertiliser l imagination et les reves influer sur les arts tombe dans l inconscient on lui preterait une forme de pensee la puissance d une deite personne ne l a traverse sans perdre la vie mais des rumeurs tenaces courrent