

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

Carmen STANICĂ¹, Petru MOLDOVAN²

Prezența incluziunilor nemetalice solide în aliajele de aluminiu poate provoca scăderea valorilor proprietăților mecanice ale produselor turnate, creșterea porozității gazoase, o prelucrabilitate prin aşchiere slabă, micșorarea fluidității și o calitate slabă a suprafeței.

Technicile pentru determinarea incluziunilor pot fi: metalografie cantitativă, analize chimice, teste volumetrice, tehnici nedestructive și altele.

Scopul lucrării este studiul evaluării purității topiturilor din aliaje de aluminiu 5083 prin tehnica PoDFA.

Datele obținute prin analiză arată că probele din aliaj 5083 sunt pure. Conținutul de incluziuni este cuprins între 0.011 mm³/kg și 0.025 mm³/kg, principalele incluziuni fiind TiB₂, Al₄C₃, Al₂O₃, MgO, spinel și material refractar.

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, nondestructive techniques and so on.

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

Analysis data reflect the cleanliness of 5083 alloy actually sampled. The inclusions content was between 0.011 mm³/kg and 0.025 mm³/kg, the main inclusions being TiB₂, Al₄C₃, 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 suppress their

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Annelies Wilder-Smith



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Light Metals 2014 John Grandfield, 2016-12-23. The *Light Metals* symposia are a key part of the TMS Annual Meeting Exhibition, presenting the most recent developments, discoveries, and practices in primary aluminum science and technology. Publishing the proceedings from these important symposia, the *Light Metals* volume has become the definitive reference in the field of aluminum production and related light metal technologies. The 2014 collection includes papers from the following symposia: Alumina and Bauxite, Aluminum Alloys, Fabrication, Characterization and Applications, Aluminum Processing, Aluminum Reduction Technology, Cast Shop for Aluminum Production, Electrode Technology for Aluminum Production, Light metal Matrix Nano composites.

Light Metals 2022 Dmitry Eskin, 2022-02-05. The *Light Metals* symposia at the TMS Annual Meeting Exhibition present the most recent developments, discoveries, and practices in primary aluminum science and technology. The annual *Light Metals* volume has become the definitive reference in the field of aluminum production and related light metal technologies. The 2022 collection includes contributions from the following symposia: Alumina and Bauxite, Aluminum Alloys, Processing and Characterization, Aluminum Reduction Technology, Aluminum Reduction Technology Joint Session with REWAS, Decarbonizing the Metals Industry, Cast Shop Technology, Electrode Technology for Aluminum Production, Primary Aluminum Industry, Energy and Emission Reductions, An LMD Symposium in Honor of Halvor Kvande, Recycling and Sustainability in Cast Shop Technology, Joint Session with REWAS 2022.

Light Metals 2013 Barry Sadler, 2013-02-21. The *Light Metals* series is widely recognized as the definitive source of information on new developments in aluminum production technology. This new volume presents proceedings from 2013's *Light Metal* Symposia covering the latest research and technologies on such areas as alumina and bauxite, aluminum reduction technology, electrode technology for aluminum production, cast shop for aluminum production, aluminum processing, aluminum alloys, and cost affordable titanium IV. It also includes papers from a keynote presentation session discussing impurities in the aluminum supply chain, which are also included.

Light Metals 2012 Carlos E. Suarez, 2012-05-11. An update of the definitive annual reference source in the field of aluminum production and related light metals technologies, a great mix of materials science and practical applied technology surrounding aluminum, bauxite, aluminum reduction, rolling, casting, and

production **Light Metals 2025** Les Edwards, 2025-03-02 The Light Metals symposia at the TMS Annual Meeting Exhibition present the most recent developments discoveries and practices in primary aluminum science and technology The annual Light Metals volume has become the definitive reference in the field of aluminum production and related light metal technologies The 2025 collection includes contributions from the following symposia Alumina Bauxite Aluminum Alloys Development and Manufacturing Aluminum Reduction Technology Decarbonization and Sustainability in Aluminum Primary Processing Joint Session of Aluminum Reduction Electrode Technology and REWAS 2025 Electrode Technology for Aluminum Production Melt Processing Casting and Recycling Recycling and Sustainability in Cast Shop Technology Joint Session with REWAS 2025 Scandium Extraction and Use in Aluminum Alloys **3rd International Conference on Molten Aluminum Processing** ,1992

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