

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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Aluminum Melt Cleanliness Performance Evaluation Using Podfa

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Essential Readings in Light Metals, Volume 3, Cast Shop for Aluminum Production John Grandfield, Dmitry Eskin, 2016-12-23 ONE OF A FOUR BOOK COLLECTION SPOTLIGHTING CLASSIC ARTICLES Original research findings and reviews spanning all aspects of the science and technology of casting Since 1971 The Minerals Metals Materials Society has published the Light Metals proceedings Highlighting some of the most important findings and insights reported over the past four decades

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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 **Sensors, Sampling, and Simulation for Process Control** Brian G. Thomas, Yurko, Lifeng Zhang, 2011-04-12 This symposium aims to explore the current state of the art in control of industrial processes in the field of extraction and processing of metals and materials New sensor technologies more advanced real time models and faster computers are enabling better control systems for these processes Specific topics include but are not limited to 1 novel sensors for hostile environment materials processes such as online inclusion detection temperature and velocity in molten materials surface condition of hot moving products etc 2 innovative online sampling and analysis techniques 3 models for real time process control and quality monitoring systems 4 process automation scheduling and plant wide logistics optimization 5 control of composition temperature microstructure and morphology in sintering smelting refining solidification reheating deformation and transport of ores slags mattes metals materials and aqueous solutions 6 prediction monitoring control and optimization of process parameters in these systems 7 control in manufacturing processes including casting annealing forging rolling extrusion powder metallurgy electronic materials welding etc 8 control of impurities and environmentally undesirable components in product and waste streams *Light Metals 2016* Edward Williams, 2016-12-20 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 2016 collection includes papers from the following symposia 1 Alumina and Bauxite 2 Aluminum Alloys Processing and Characterization 3 Aluminum Reduction Technology 4 Cast Shop Technology 5 Electrode Technology 6 Strip Casting **Transactions**, 1991 **The Encyclopedia of Advanced Materials** David Bloor, 1994 *Aluminum Now*, 2003 Aluminium, 2004 **Light Metals 1997** Christian Bickert, R. I. L. Guthrie, Canadian Institute of Mining, Metallurgy and Petroleum, 1997 **Light Metals 2023** Stephan Broek, 2023-07-20 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 2023 collection includes contributions from the following symposia 60 Years of Taking Aluminum Smelting Research and Development from New Zealand to the World An LMD Symposium in Honor of Barry J Welch Alumina Bauxite Aluminium Industry Emissions Measurement Reporting Reduction Aluminium Waste Management Utilisation Aluminum Alloys Characterization and Processing Aluminum Reduction Technology Cast Shop Technology Electrode Technology for Aluminum Production Scandium Extraction and Use in Aluminum Alloys

Encyclopedia of Aluminum and Its Alloys, Two-Volume Set (Print) George E. Totten, Murat Tiryakioglu, Olaf Kessler, 2018-12-07 This encyclopedia written by authoritative experts under the guidance of an international panel of key researchers from academia national laboratories and industry is a comprehensive reference covering all major aspects of metallurgical science and engineering of aluminum and its alloys Topics covered include extractive metallurgy powder metallurgy including processing physical metallurgy production engineering corrosion engineering thermal processing processes such as metalworking and welding heat treatment rolling casting hot and cold forming surface engineering and structure such as crystallography and metallography

Foundry Processes Seymour Katz, Craig F. Landefeld, 1988-06 For a number of years it has been a General Motors Research Laboratories custom to hold a symposium on a subject which is new and emerging and to invite the best people in the world in that subject to come together to talk to each other Initially I had some difficulty in regarding foundry processes as a new and emerging subject Copper alloys have been in foundry practice for about six thousand years Foundrymen working with those alloys have been recognized as such for nearly all that time Iron has a much shorter history probably only three or four thousand years So what's new What is new is that a subject which has always been so complex and so difficult that it could only be a craft skill with bits and pieces of knowledge and bits and pieces of insight has begun to yield to new abilities to solve very complex problems We do this now because we can handle great amounts of data by computational means using new and more complicated theoretical treatments than we could deal with before In fact we have a new technology with which we can attack these terribly difficult problems Thus foundry processing is becoming a new subject because new things can be done with it

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Table of Contents Aluminum Melt Cleanliness Performance Evaluation Using Podfa

1. Understanding the eBook Aluminum Melt Cleanliness Performance Evaluation Using Podfa
 - The Rise of Digital Reading Aluminum Melt Cleanliness Performance Evaluation Using Podfa
 - Advantages of eBooks Over Traditional Books
2. Identifying Aluminum Melt Cleanliness Performance Evaluation Using Podfa
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Aluminum Melt Cleanliness Performance Evaluation Using Podfa
 - User-Friendly Interface
4. Exploring eBook Recommendations from Aluminum Melt Cleanliness Performance Evaluation Using Podfa
 - Personalized Recommendations
 - Aluminum Melt Cleanliness Performance Evaluation Using Podfa User Reviews and Ratings

- Aluminum Melt Cleanliness Performance Evaluation Using Podfa and Bestseller Lists
- 5. Accessing Aluminum Melt Cleanliness Performance Evaluation Using Podfa Free and Paid eBooks
 - Aluminum Melt Cleanliness Performance Evaluation Using Podfa Public Domain eBooks
 - Aluminum Melt Cleanliness Performance Evaluation Using Podfa eBook Subscription Services
 - Aluminum Melt Cleanliness Performance Evaluation Using Podfa Budget-Friendly Options
- 6. Navigating Aluminum Melt Cleanliness Performance Evaluation Using Podfa eBook Formats
 - ePub, PDF, MOBI, and More
 - Aluminum Melt Cleanliness Performance Evaluation Using Podfa Compatibility with Devices
 - Aluminum Melt Cleanliness Performance Evaluation Using Podfa Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Aluminum Melt Cleanliness Performance Evaluation Using Podfa
 - Highlighting and Note-Taking Aluminum Melt Cleanliness Performance Evaluation Using Podfa
 - Interactive Elements Aluminum Melt Cleanliness Performance Evaluation Using Podfa
- 8. Staying Engaged with Aluminum Melt Cleanliness Performance Evaluation Using Podfa
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Aluminum Melt Cleanliness Performance Evaluation Using Podfa
- 9. Balancing eBooks and Physical Books Aluminum Melt Cleanliness Performance Evaluation Using Podfa
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Aluminum Melt Cleanliness Performance Evaluation Using Podfa
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Aluminum Melt Cleanliness Performance Evaluation Using Podfa
 - Setting Reading Goals Aluminum Melt Cleanliness Performance Evaluation Using Podfa
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Aluminum Melt Cleanliness Performance Evaluation Using Podfa
 - Fact-Checking eBook Content of Aluminum Melt Cleanliness Performance Evaluation Using Podfa
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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