Magnesium Technology 2009

Poster Session - Magnesium and Its Alloys

Effects of KCl on Electrical Conductivity of BaF2-LiF-MgF2 Electrolyte

Influence of Strontium Addition on Tensile Properties of Squeeze Cast AM60 Alloy

Tracing Nucleation and Grain Growth during Static Recrystallization of Pure Mg by EBSD

Age Hardening Response of Mg-Ce-Al Alloys

Effect of Grain Size on Corrosion Behavior of Squeeze Cast AJ62 Magnesium Alloy in Salt Solution and Automotive Coolant

Influence of Strontium Addition on Tensile Properties of Squeeze Cast AM60 Alloy

Tracing Nucleation and Grain Growth during Static Recrystallization of Pure Mg by EBSD

Primary Production

Cathode Wetting Studies in Magnesium Electrolysis

Mechanism and Kinetics of Reduction of Magnesium Oxide with Carbon

A Study on Influence of Fluxing Additives on Magnesium Refining Process

Study on Ultrasonic Purification of Magnesium Alloy Melt

Prediction Model of Magnesium Powder Consumption during Hot Metal Pre-Desulfurization

Study on Electrolysis of Magnesium Oxide on 200A Scale

Vacuum Thermal Extract Magnesium from Boron Mud

Study on Behavior of Anode Bubble

Fatigue and Tension/Compression Asymmetry

Enhancing In-Plane Fatigue Resistance of Rolled AZ31 Magnesium Alloy by Pre-Straining

Influence of Stress Ratio on Fatigue Crack Propagation Behavior of AZ31 Alloy

Comparison of Quasistatic and Cyclic Plastic Behaviour of Wrought Magnesium Alloys

Casting

The Effect of Heat Treatment Conditions on the Mechanical Properties of Sand Cast Alloy MRI 202S

Melt Conditioned High Pressure Die Casting (MC-HPDC) of Mg-Alloys

Microsegregation Study of Mg Alloys and Adaptation of Directional Solidification Technique

Intermetallics Distribution in Two and Three Dimensions in High Pressure Die Cast Mg-Al Alloys

Investigations on Hot Tearing of Mg-Al Binary Alloys by Using a New Quantitative Method

Magnesium Recycling System Prepared by Permanent Mould- and High Pressure Die Casting

Solidification Behavior of Recyclable Mg Alloys - AZ91 and AZC1231

Stresses and Cracking during Direct Chill Casting of AZ31 Alloy Billet

Refinement of Solidification Microstructures by the MCAST Process

Calcium

Creep Resistant Mg-Al-Zn-Ca-Sr Alloy

Effect of Ca on the Fluidity of AS41B Magnesium Alloy
Evolution of Grain Boundary Precipitate Depleted Zones in Mg-Ca-Zn Alloy Stabilized by Zr Additions

Flame Resistance Behaviors of AS, AE, MRI and AO Series Mg Alloys

Microsegregation and Creep in Mg-Al-Ca-Based Alloys

Thermodynamic Assessment and Its Application of Ternary Mg-Zn-Ca System Using CALPHAD Method

The Influence of Calcium and Cerium Mischmetal on the Ignition Behavior of Magnesium

Applications, Testing and Forming

A Life Cycle Assessment of a Magnesium Front-End Auto Part

Initial Evaluation of Advanced Powder Metallurgy Magnesium Alloys for Dynamic Applications

Microstructural and Mechanical Aspects of Reinforcement Welds for Lightweight Components Produced by Friction Hydro Pillar Processing

Die Forging of the Alloys AZ80 and ZK60

Ignition-Proof of Magnesium Alloy and Preparation of Magnesium Foam

Applicability of Existing Magnesium Alloys as Biomedical Implant Materials

History of the Magnesium-Base Alloys Application in the Romanian Aeronautical Industry

Extrusion

Influence of Alloying Additions on the Microstructure Development of Extruded Mg-Mn Alloys

Texture Evolution in an AZ31 Mg alloy during Direct and Indirect Extrusion Processes

Influences of Load Direction and Grain Size on Tension-Compression Yield Asymmetry of Extruded AZ31 Magnesium Alloy

Rare Earth (Cerium and Other)

Microstructure and Mechanical Properties of an Mg-Rare Earth Based Alloy AM-SC1

Interdependence between Cooling Rate, Microstructure and Porosity in Mg Alloy AE42

Application of Neutron Diffraction in In-Situ Studies of Stress Evolution in High Temperature Creep Testing of Creep Resistant Magnesium Alloys

The Intergranular Microstructure of Magnesium Based Die-Cast AE Alloys

Rare Earth (Gadolinium, Neodymium)

Characterization of Dynamic Strain Ageing in Mg-3.11wt.%Gd Alloy

Effect of Cold Roll on Microstructure and Mechanical Properties of Mg-8Gd-3Y-0.5Zr Alloy

Effects of Heat Treatments on Tensile Properties and Creep Behavior of Mg-Y-Gd-Zr Alloys

The Fracture Behavior of the B2 Intermetallic, MgY

On the Microstructure and Texture Development of Magnesium Alloy ZEK100 During Rolling

Effects of Solid Solution Heat Treatment on the Microstructures and Mechanical Properties of Mg96.82Zn1Gd2Zr0.18 Alloy with 14H-Type LPSO Structure

Microstructure and Mechanical Properties of Hot Extruded Mg-3Nd-0.2Zn-0.4Zr

Refining and Surface Treatment
On the Influence of Settling of (ZrB2)P Inoculants on Grain Refinement of Mg-Alloys: Experiment and Calculation

Grain Refining of AZ91E Alloy Using Ultrasonic Vibration

The Influence of \(946\)-\(17\)\(^{12}\) Phase Distribution on Corrosion Behavior of AM50 Alloy in NaCl Solution

Study of Cathodic Metal Transfer to Magnesium Surfaces in Aqueous Environments and Engine Coolant Formulations by Surface Analytic Methods

New Surface Treatment for Developing Luster on AZ31 Magnesium Alloy in Industrial Scale

Characteristics of Phosphate Chemical Conversion-Coating on Magnesium Alloy

Electroless Ni-P Plating on Magnesium-Lithium Alloy

Twin Roll Casting and Semi-Solid Processing

NanoMag High Strength/Density Mg Alloy Sheet

Magnesium Alloy Strips Produced by a Melt Conditioned Twin Roll Casting (MC-TRC) Process

Microstructures of the Deforming Zone in Hot Rolling AZ31 Sheet

Effect of Warm Rolling and Heat Treatment on Microstructure and Mechanical Properties in Twin Roll Cast ZK60 Alloy Sheet

Development of Rolling Technology for Twin Roll Casted 1500mm Wide Magnesium AZ31 Alloy

Development of 150cm Wide Wrought Magnesium Alloys by Twin Roll Strip Casting Technique in Turkey

Wrought Alloys

Age Hardening Response and Microstructures of ZK60 Alloy with Li Additions

High Temperature Deformation Behavior of Three Rolled Sheets of Magnesium Alloy AZ31

Physical Metallurgy of Mg AZ80 Alloys for Forging Applications

Effects of Alloying Elements on Texture and Mechanical Properties of Extruded Mg-Zn-Al Alloys

Formability of Magnesium Sheet

Application of Incremental Forming Technique to Mg-AZ31 Sheet

Grain Size Effect on Hot Forging of Mg Alloys

Deformation Mechanisms in AZ31 Magnesium Alloy Tube Bending

Yttrium and Tin

Microstructure and Mechanical Properties of Mg-Al-Mn and Mg-Al-Sn Alloys

Directionally Controlled Precipitation on Twin-Boundaries in Mg-Zn-Y Alloys

Effect of Extrusion Temperature on the Microstructure and Mechanical Properties of Mg97Y2Zn1 Alloy

Effect of Trace Elements on Age Hardening Behavior of Mg-Sn Alloy

Effects of Sb Additions on the Microstructure and Mechanical Properties of As-Cast Mg-5%Sn Alloy

Thermodynamic Modeling and Its Applications to Mg-Sn Based Alloy Development

Strengthening Mechanisms in Mg-Al-Sn Based Alloys

Relation between the Microstructure and the Plastic Deformation Behavior in Mg12ZnY with the LPSO Structure
Effect of Rare Earth Elements Addition and T6 Heat Treatment on Creep Properties of Mg-Al-Zn Alloy

Modeling and Deformation

Blind Study of the Effect of Processing History on the Constitutive Behavior of Alloy AZ31B

Deformation Mechanisms in Magnesium Alloy Elektron 675

Effect of Precipitates on Deformation Mechanisms at Low-Temperature in an AZ80 Magnesium Alloy

Elevated Temperature and Varied Load Response of AS41 at Bolted Joint

High Temperature Deformations and Microstructural Evolutions of Mg Alloy Laminated Composites Fabricated by ECAE

New Microalloyed Magnesium with Exceptional Mechanical Performance

Study on Rolling Process of Mg-9Li-2Zn Alloy Plate

A New Approach for Inverse Parameter Calculations of the Plastic Deformation Behavior of AZ31 Magnesium Alloy

Microstructural Investigation of Twins under the Fracture Surface in AZ31 Mg Alloys

Test Results and FEA Predictions from Magnesium AM30 Extruded Beams in Bending and Axial Compression

Author Index

Subject Index

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