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Role of fine size zircon sand ceramic particle on controlling the cell morphology of aluminum composite foams

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ABSTRACT

Composite fearms exhibit unique properties such as light weight, blast palliation, sound absorption, high energy absorption, and flame resistance. In the present investigation, role of fine size zircon sand ceramic particle on controlling the cell morphology of LM13 alloy composite fearms has been studied. For this purpose LM13 piston alloy of near extectic composition is used as fearning matrix material and zircon sand ceramic particles as minforcement. Composite fearn was developed by stir casting route at different temperatures. Variation in microstructures of the composite fearn in observed with the addition of zircon sand ceramic particles and also with varying fearning temperatures. The results show that the cell morphology parameters such as cell size, node and ligament length increases with increasing fearning temperature. However, the addition of zircon sand ceramic particles leads to decrement in the ligament length with increasing fearning temperature.

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1. Introduction

Metallic foams, as a new class of engineering materials, offer a unique combination of properties such as low density, energy absorption capability, high stiffness and strength. These improved properties of the metallic foams make them highly desirable materials for different engineering applications [1-4]. Recent improvements in the production methods for metallic foams have offered a variety of applications in different fields such as the automobile, railway and aerospace industries [5]. In these applications, the composite foam is subjected to high-velocity deformations. Miyoshi et al. [3] have shown the application of aluminum composite foam as a functional material for sound and impact energy absorption. Metallic foams are excellent impact energy absorber. and they can convert impact energy into deformation energy and absorb more energy than bulk metals at low stresses [4,6]. Main application of particle reinforced metallic composite foams is in defence and is used as passive safety systems due to energy absorption and dissipation properties of the foams. Both physical and mechanical properties of aluminum composite foams are not only controlled by composition of matrix and reinforcement but are also significantly affected by cell structure of foam [6], Ma and Song [5] found that the Cell structure of aluminum foams can be

controlled by the foaming process where viscosity of the aluminum melt has be controlled by addition of Ca and continuous stirring of the melt. The average cell diameter of aluminum foams decreases with increasing viscosity of the melt. Many studies have been carried out to optimize the microstructural properties of aluminum foams as it influences the above said properties which are of at most importance. This includes the cell wall thickness, node size, ligament length and interdependent relationship of foam density with cell size [4-6]. Since all these microstructural properties are believed to originate from manufacturing condition of metallic foams [3.7], it is of interest to modify the processing conditions in order to achieve more uniform cell size distribution with reduced morphological defects for better performance. The blowing agent used for foaming decomposes in molten aluminum and generates gas bubbles therein. However, to have a uniformity in structure, it should generate the desired amount of gas bubbles of desired sizes during the foaming process. Apart from this the molten aluminum must possess a certain viscosity which is affected by the addition of ceramics particles so that the generated gas bubbles are retained in the aluminum matrix during solidification [8]. In this entire process, temperature plays an important role.

Role of reinforcement of SiC on foam stability has been studied by Prakash et al. [1] and also by Deqing and Ziyuan [9]. They have controlled the stability of aluminum foam with the distribution of SiC particles and the addition of higher content of SiC, increase the brittleness nature of foam [9]. Mukherjee et al. [10] have studied the affect of SiC on the microstructure, density, and strength of closed

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manufacturing is at the core of industrial production from base materials to semi finished goods and final products Over the last decade a variety of innovative methods have been developed that allow for manufacturing processes that are more versatile less energy consuming and more environmentally friendly This book provides readers with everything they need to know about the many manufacturing processes of today Presented in three parts Modern Manufacturing Processes starts by covering advanced manufacturing forming processes such as sheet forming powder forming and injection molding The second part deals with thermal and energy assisted manufacturing processes including warm and hot hydrostamping It also covers high speed forming electromagnetic electrohydraulic and explosive forming The third part reviews advanced material removal process like advanced grinding electro discharge machining micro milling and laser machining It also looks at high speed and hard machining and examines advances in material modeling for manufacturing analysis and simulation Offers a comprehensive overview of advanced materials manufacturing processes Provides practice oriented information to help readers find the right manufacturing methods for the intended applications Highly relevant for material scientists and engineers in industry Modern Manufacturing Processes is an ideal book for practitioners and researchers in materials and mechanical engineering Stream of Variation Modeling and Analysis for Multistage Manufacturing Processes Jianjun Shi, 2006-12-04 Variability arises in multistage manufacturing processes MMPs from a variety of sources Variation reduction demands data fusion from product process design manufacturing process data and quality measurement Statistical process control SPC with a focus on quality data alone only tells half of the story and is a passive method taking corre

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