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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 foams 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 foams has been studied. For this purpose LM13 piston alloy of near eutectic composition is used as foaming matrix material and zircon sand ceramic particles as reinforcement. Composite foam was developed by stir casting route at different temperatures. Variation in microstructures of the composite foam is observed with the addition of zircon sand ceramic particles and also with varying foaming temperatures. The results show that the cell morphology parameters such as cell size, node and ligament length increases with increasing foaming temperature. However, the addition of zircon sand ceramic particles leads to decrement in the ligament length with increasing foaming 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 ceramic 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 Ziquan [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 effect of SiC on the microstructure, density, and strength of closed

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