

Journal

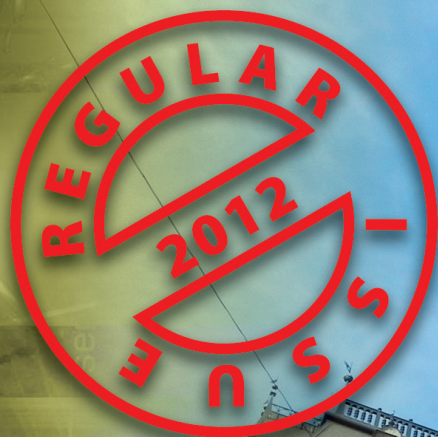
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and Manufacturing Engineering



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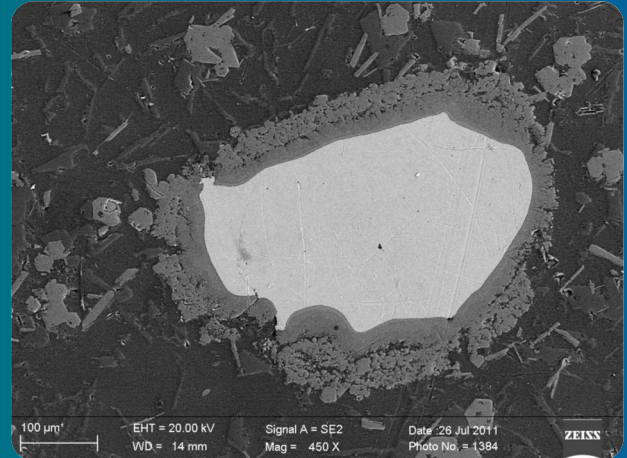


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The paper from Materials area made by A. Dulęba and M. Cholewa on "Influence of selected parameters of AlSi/CrFeC composite castings manufacturing on the resulted structure" on a **page 15** describes the influence: size of reinforcing particles, frequency and the current intensity on the morphology of reinforcing phase precipitates in AlSi11/CrFe30C8 composites castings produced of rotating electromagnetic field. The results of investigations and their analysis shown, that contribution of these variables parameters essentially influence on the morphology of reinforcing phase. On the basis of analysis results determined the most effective technological parameters to produced composite casting. In this paper the technology of AlSi11/Cr₃C_y composites produced with Cr30Fe8C ex situ particles is described. Technological conception of investigations was based on assumption that Cr-Fe matrix of particles dissolved in Al-Si composite matrix and carbide phases became actual reinforcement of the composite. Determined possibility to control of volume fraction and distribution of reinforcing phase with used of the electromagnetic field, it can be used for example in the control of utility properties wear-resistant materials with a high coefficient of friction such as brake discs. The work presents the use of the electromagnetic field to shape the structure and distribution of reinforcing phase in composite matrix. Within the range of this investigation created the new experimental stand for production of composites under electromagnetic field.