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Author(s): Banhart, J; Baumeister, J

Title: Deformation characteristics of foamed metals

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Abstract: The deformation behaviour of a series of aluminium and zinc foams was investigated by uniaxial testing. Because the deformation behaviour of metal foams is expected to be anisotropic with respect to the foaming direction and due to the orientation of the closed outer skin, a series of measurements was carried out where the orientation of the outer skin and the foaming axis were varied. Finally, aluminium tubes filled with aluminium foam were tested. The results of the measurements are discussed in the context of possible applications of metal foams as energy absorbers.

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