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Record 1 of 1**Author(s):** Weber, M; Baumeister, J; Banhart, J**Editor(s):** Sarton, LAJ; Zeedijk, HB**Title:** Metal foams under extreme conditions**Source:** EUROMAT 97 - PROCEEDINGS OF THE 5TH EUROPEAN CONFERENCE ON ADVANCED MATERIALS AND PROCESSES AND APPLICATIONS: MATERIALS, FUNCTIONALITY & DESIGN, VOL 1 - METALS AND COMPOSITES : 467-470 1997**Language:** English**Document Type:** Proceedings Paper**Conference Title:** 5th European Conference on Advanced Materials and Processes and Applications (EUROMAT 97)**Conference Date:** APR 21-23, 1997**Conference Location:** MAASTRICHT, NETHERLANDS**Conference Sponsors:** Federat European Mat Soc.; Netherlands Soc Mat Sci.**Abstract:** A powder metallurgical process for the production of metal foams is described. Physical and mechanical properties of aluminium foams are presented with focus on the energy absorption capacity. The dependencies of foam density and material on metal foam properties are described and thereby tools for tailoring the properties of given applications discussed. The foaming process is characterised by expansion and temperature diagrams and the influence of different foaming parameters discussed.**Reprint Address:** Weber, M, FRAUNHOFER INST ANGEW MAT FORSCH, LESUMER HEERSTR 36, D-28717 BREMEN, GERMANY.**Cited Reference Count:** 0**Times Cited:** 0**Publisher:** NETHERLANDS SOC MATERIALS SCIENCE**Publisher Address:** PO BOX 390, N-3330 ZWIJNDRECHT, NETHERLANDS**ISBN:** 90-803513-1-8**Source Item Page Count:** 4**Subject Category:** Materials Science, Multidisciplinary; Metallurgy & Metallurgical Engineering; Materials Science, Composites**ISI Document Delivery No.:** BJ43L[Back to Results](#)ISI Web of Knowledge
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