

Accepted Manuscript

Experimental investigation on the dynamic behaviour of metal foam:
from yield to densification

Jiagui Liu, Siyuan He, Han Zhao, Gan Li, Mingyang Wang

PII: S0734-743X(17)30708-X
DOI: [10.1016/j.ijimpeng.2017.12.016](https://doi.org/10.1016/j.ijimpeng.2017.12.016)
Reference: IE 3046



To appear in: *International Journal of Impact Engineering*

Received date: 15 August 2017
Revised date: 16 November 2017
Accepted date: 15 December 2017

Please cite this article as: Jiagui Liu, Siyuan He, Han Zhao, Gan Li, Mingyang Wang, Experimental investigation on the dynamic behaviour of metal foam: from yield to densification, *International Journal of Impact Engineering* (2017), doi: [10.1016/j.ijimpeng.2017.12.016](https://doi.org/10.1016/j.ijimpeng.2017.12.016)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- Dynamic densification on large size metal foam is achieved by direct impact Hopkinson bar test.
- Stress is measured by two points strain gages measurements with explicit formulae and strain by high-speed photography with digital edge detection separately.
- The principle to achieve quasi-constant impact speed is proposed.
- Dynamic full curves of different densities aluminum foams are given.

Download English Version:

<https://daneshyari.com/en/article/7172967>

Download Persian Version:

<https://daneshyari.com/article/7172967>

[Daneshyari.com](https://daneshyari.com)