

## Accepted Manuscript

Investigation on shaped charge jet density gradient for metal matrix composites: Experimental design and execution

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PII: S0734-743X(17)30009-X  
DOI: [10.1016/j.ijimpeng.2017.07.011](https://doi.org/10.1016/j.ijimpeng.2017.07.011)  
Reference: IE 2958



To appear in: *International Journal of Impact Engineering*

Received date: 3 January 2017  
Revised date: 13 June 2017  
Accepted date: 7 July 2017

Please cite this article as: Fang Wang , Jianwei Jiang , Jianbing Men , Yunshan Bai , Shuyou Wang , Mei Li , Investigation on shaped charge jet density gradient for metal matrix composites: Experimental design and execution, *International Journal of Impact Engineering* (2017), doi: [10.1016/j.ijimpeng.2017.07.011](https://doi.org/10.1016/j.ijimpeng.2017.07.011)

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**Highlights**

- We have proposed an experiment method to investigate the composition and density gradient in metal matrix composite materials.
- We have proposed a projection method to confirm the exact jet element location.
- We have obtained the relationship between jet tip offset with the initiation offset and standoff.
- We have found that Cu contents vary with positions in the W-Cu jet and density defects occur with a maximum of about 10% reduction at the jet tip .
- The shaped charge density function was successfully established.

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