

## **Momentum and Heat Transfer in Gas Atomization of Melts**

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Gas atomization of melt is widely used to produce metal powders and spray formed parts. In this process heat and momentum transfer of metal droplets take place during their flight in the gas medium. It is quite important to know the values of various parameters related to these two modes of transport phenomena. In the present paper mathematical models were developed and experimentally verified to predict values of various parameters, such as droplet and gas velocity, droplet temperature with time and distance travelled, percentage release of latent heat by the droplet. Four metals, lead, zinc, aluminium and tin were atomized to collect experimental data.

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