

Review of: "The Influence of Hot Extrusion on The Mechanical and Wear Properties of an Al6063 Metal Matrix Composite Reinforced With Silicon Carbide Particulates"

Vigneshkumar M Vigneshkumar¹

¹ Sri Krishna College of Engineering and Technology

Potential competing interests: No potential competing interests to declare.

Dear Editor,

I am writing my review comments for the article ["The Influence of Hot Extrusion on The Mechanical and Wear Properties of an Al6063 Metal Matrix Composite Reinforced With Silicon Carbide Particulates"](#).

1. The author mentioned specific parameters for the hot extrusion process, such as the extrusion temperature of 550°C, extrusion ratio of 9.0, and ram speed of 2 millimeters per second. Could the author explain how these parameter levels were selected and their influence on strength?
2. The author stated a 54% reduction in porosity during the hot extrusion process compared to the as-cast condition. The author shall explain the mechanisms or factors behind this reduction in porosity.
3. The author mentioned a decrease in impact strength with an increasing quantity of reinforcement, with the hot extrusion process mitigating this effect. Could the author explain how the hot extrusion process influenced impact strength and reduced brittleness, especially considering the observed decrease in impact strength with more reinforcement?

The manuscript may be accepted with the above minor revisions.