

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

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Potential competing interests: No potential competing interests to declare.

The manuscript titled "**The Influence of Hot Extrusion on The Mechanical and Wear Properties of an Al6063 Metal Matrix Composite Reinforced With Silicon Carbide Particulates**" examines the mechanical and wear behaviour of Al 6063 alloy-SiC composites in as-cast and hot extruded conditions. The manuscript has many major issues:

1. How was the preheating temperature of SiC particles, i.e., 400°C, determined, as discussed in "Section 2.1"?
2. It is recommended to dedicate separate sub-sections (in addition to Section 2.1) for the mechanical tests and wear tests, outlining their methodologies.
3. Authors are recommended to add an original or schematic representation of the fabrication route to enhance readers' understanding.
4. Please elaborate on the procedures used to calculate density and porosity by adding a sub-section in "Section 2."
5. Generate all graphs using Origin software.
6. Ensure uniform captions for all figures; please recheck them.
7. Include error bars in the graphs.
8. The manuscript lacks the presentation of the microstructure and compositional attributes of the fabricated composite, which is crucial and should be emphasized.
9. Improve the clarity of SEM graphs and incorporate a scale bar for reference.
10. A thorough revision of the manuscript is necessary before it can be considered for acceptance in any journal.