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.

In the article “The Influence of Hot Extrusion on the Mechanical and Wear Properties of an Al6063 Metal Matrix Composite Reinforced With Silicon Carbide Particulates,” both cast and hot extruded samples are investigated for mechanical and adhesive wear studies.

The purpose of the article is very well expressed in the abstract and in the material. The experimental part is very well organized. For the experiment, the mechanical, wear testing, and the developed composite specimens are machined in accordance with ASTM and IS standards. Also, the density test is conducted on all prepared composite systems, for both the as-cast and hot extruded conditions. Tensile tests are performed under controlled conditions on composites containing varying weight fractions of SiC reinforcements (2%, 4%, 6%, and 8%). The test results in the article are compared to those of the unreinforced Al6063 alloy.

Recommendations:

Increase the resolution in some of the figures and graphs, such as Fig. 3, Fig. 4, etc.

I wish the authors success with this article.