Review of: "Investigating the Mechanical and Tribological Effects of MoS2 Reinforcement in AZ91 Magnesium Alloy: A Comprehensive Experimental Study"

Vandana Rao[1]

1 Maharaja Sayajirao University of Baroda

Potential competing interests: No potential competing interests to declare.

It is of FSW work. Reasons behind selection of MoS2 reinforcement are not discussed. How much does the temperature rise after FSW? Discuss the application of the above experimental work.

Tribological properties are not investigated. Speed variation and its effect on mechanical properties like hardness and tensile strength are evaluated. Microstructures are also presented along with SEM pictures. But stress-strain diagrams are discussed in detail, which is very important for the mechanical and tribological properties of the AZ91 alloy. A comparison between the hole reinforcement technique and the more common groove technique is a new approach, but it is not complete without doing both techniques on the same sample. The main focus is on the development of AZ91 reinforced with MoS2 composite by using the FSW process. But can we make a large-size sheet of the same composite by using the above techniques? Discuss the drawbacks of other techniques over the FSW process.