

# Review of: "Investigating the Mechanical and Tribological Effects of MoS<sub>2</sub> Reinforcement in AZ91 Magnesium Alloy: A Comprehensive Experimental Study"

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Potential competing interests: No potential competing interests to declare.

Good work, but further experimental work needs to be carried out, like fatigue test analysis - 3-point flexural tests. The diagram presented is good, but parts need to be mentioned in appropriate areas of the figures. In Figure 1, FSP and tool setup, **Figure 2**, specimens for hardness tests, **Figure 3**, samples at 1100rpm with 100X and 500X and tensile stress and strain evaluation, **Figure 4**, samples at 900rpm with 100X and 500X and tensile stress and strain evaluation, **Figure 5**, samples at 700rpm with 100X and 500X and tensile stress and strain evaluation, **Figure 6**, sample materials at 700 rpm, 900 rpm, and 1100 rpm, and **Figure 7**, fracture zones at 700 rpm, 900 rpm, and 1100 rpm.