

Review Form 1.7

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| Journal Name: | Journal of Scientific Research and Reports |
| Manuscript Number: | Ms_JSRR_113240 |
| Title of the Manuscript: | Evolution of mechanical performance and corrosion susceptibility of Al-Zn-Mg alloy after different times of flame rectification |
| Type of the Article | Original Research Article |

PART 1: Review Comments

| | Reviewer's comment | Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here) |
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| Compulsory REVISION comments 1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript) 2. Is the title of the article suitable? (If not please suggest an alternative title) 3. Is the abstract of the article comprehensive? 4. Are subsections and structure of the manuscript appropriate? 5. Do you think the manuscript is scientifically correct? 6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. (Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments) | <p>A study was carried out of the microstructure, mechanical properties and corrosion characteristics of the Al-Zn-Mg alloy before and after single and multiple flame rectification. The patterns of changes in the mechanical properties and corrosion resistance of the alloy have been established.</p> <p>YES.</p> <p>YES.</p> <p>YES.</p> <p>YES.</p> <p>YES.</p> | Revised |
| Minor REVISION comments 1. Is language/English quality of the article suitable for scholarly communications? | YES. | |
| Optional/General comments | 1. I recommend showing the scatter of mechanical properties in Figures 6, 7. 2. The description of figures 8,9 would be more informative if the authors used numerical parameters, for example: https://www.sciencedirect.com/science/article/pii/S1877705817318994 I propose to expand the description of the fracture mechanisms and refer to this article. 3. The relationship between micro-level parameters (grain sizes) and macro-level parameters (strength and corrosion resistance) should be described in more detail. 3. The conclusions should be supplemented with numerical information. | Noted and done |

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PART 2:

| | Reviewer's comment | Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here) |
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| Are there ethical issues in this manuscript? | <u>(If yes, Kindly please write down the ethical issues here in details)</u> | |