

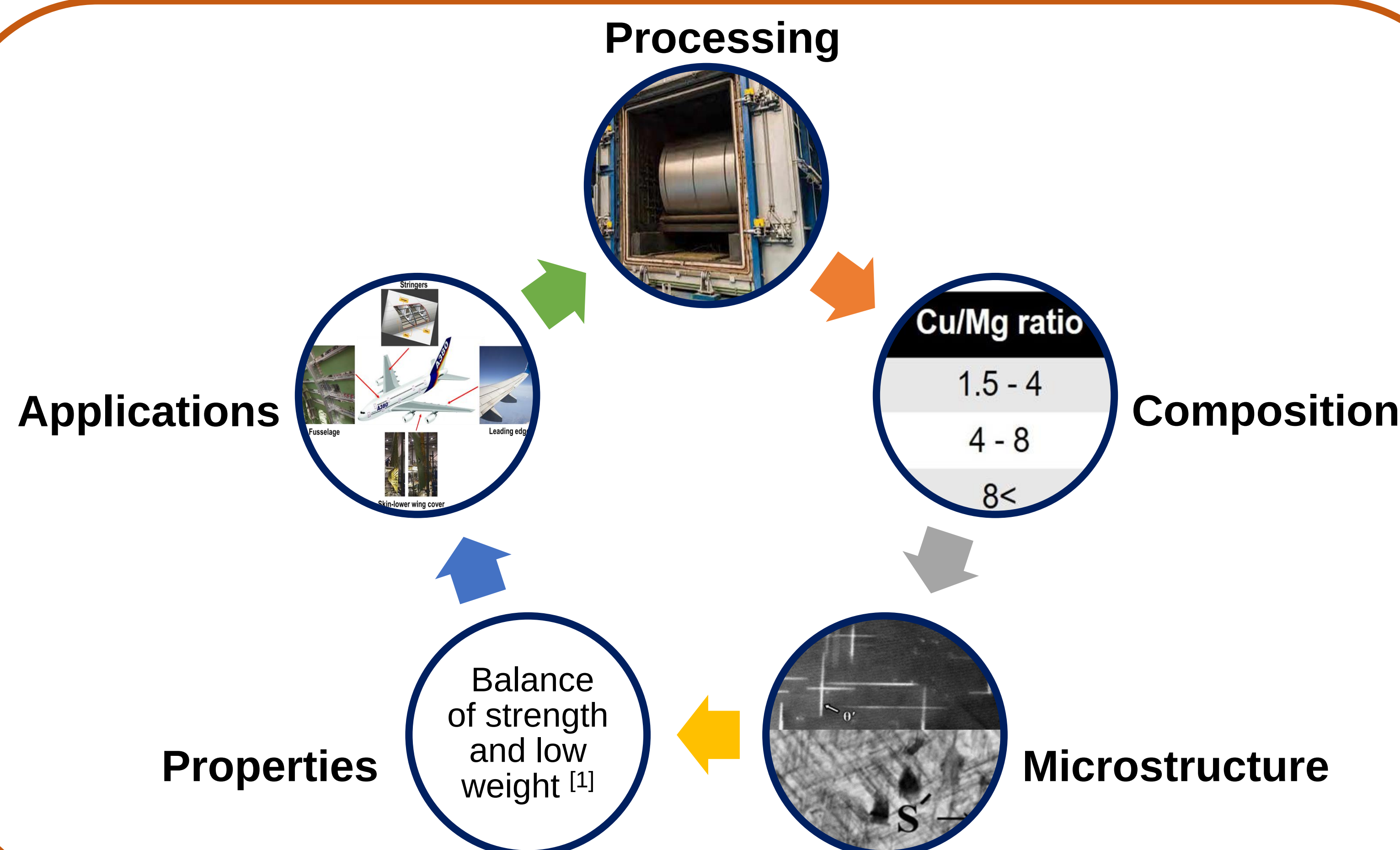
Effect of Cold Rolled on the Precipitation Mechanism of S' Phase in Al2024 alloy

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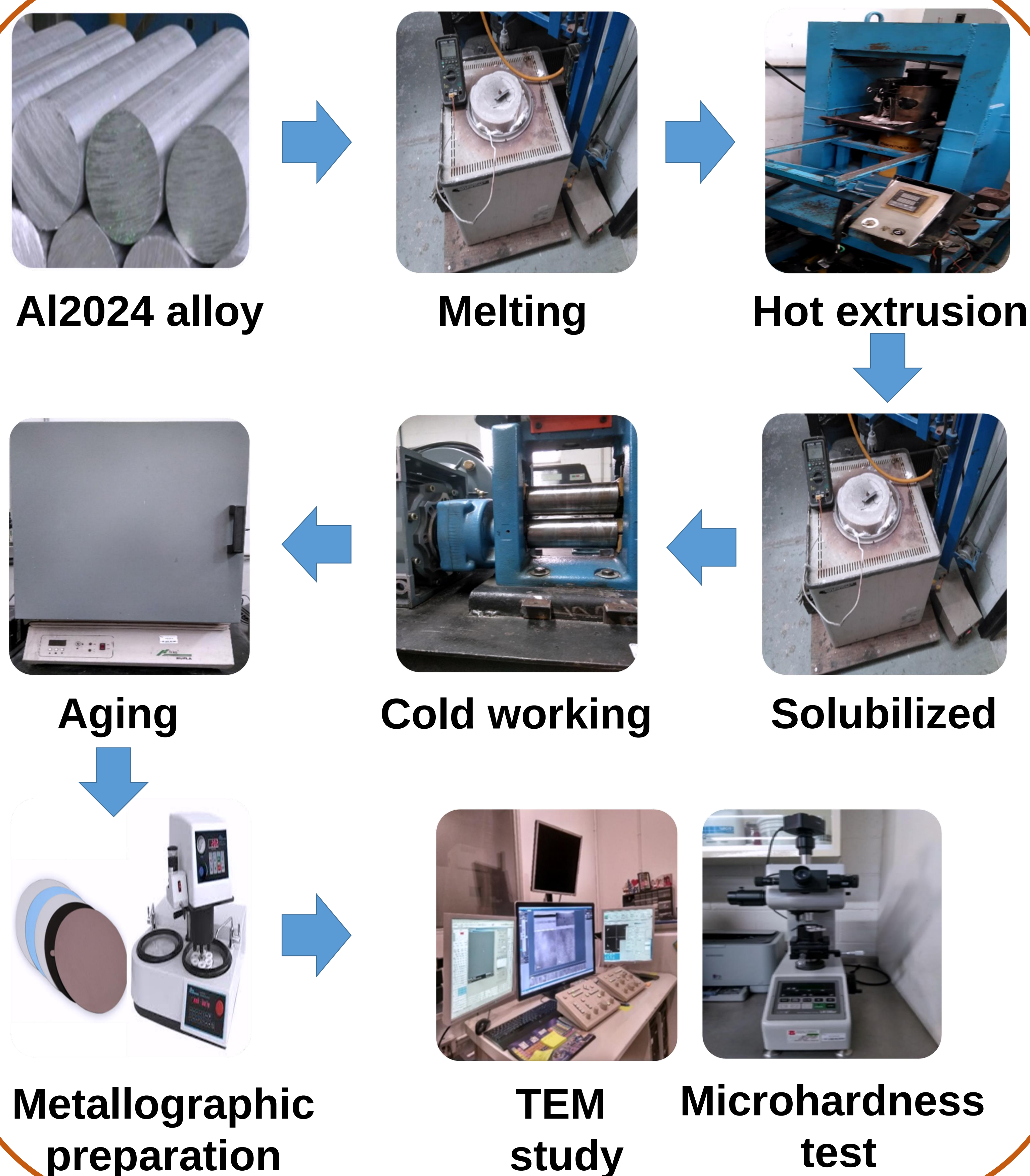
1.- INTRODUCTION



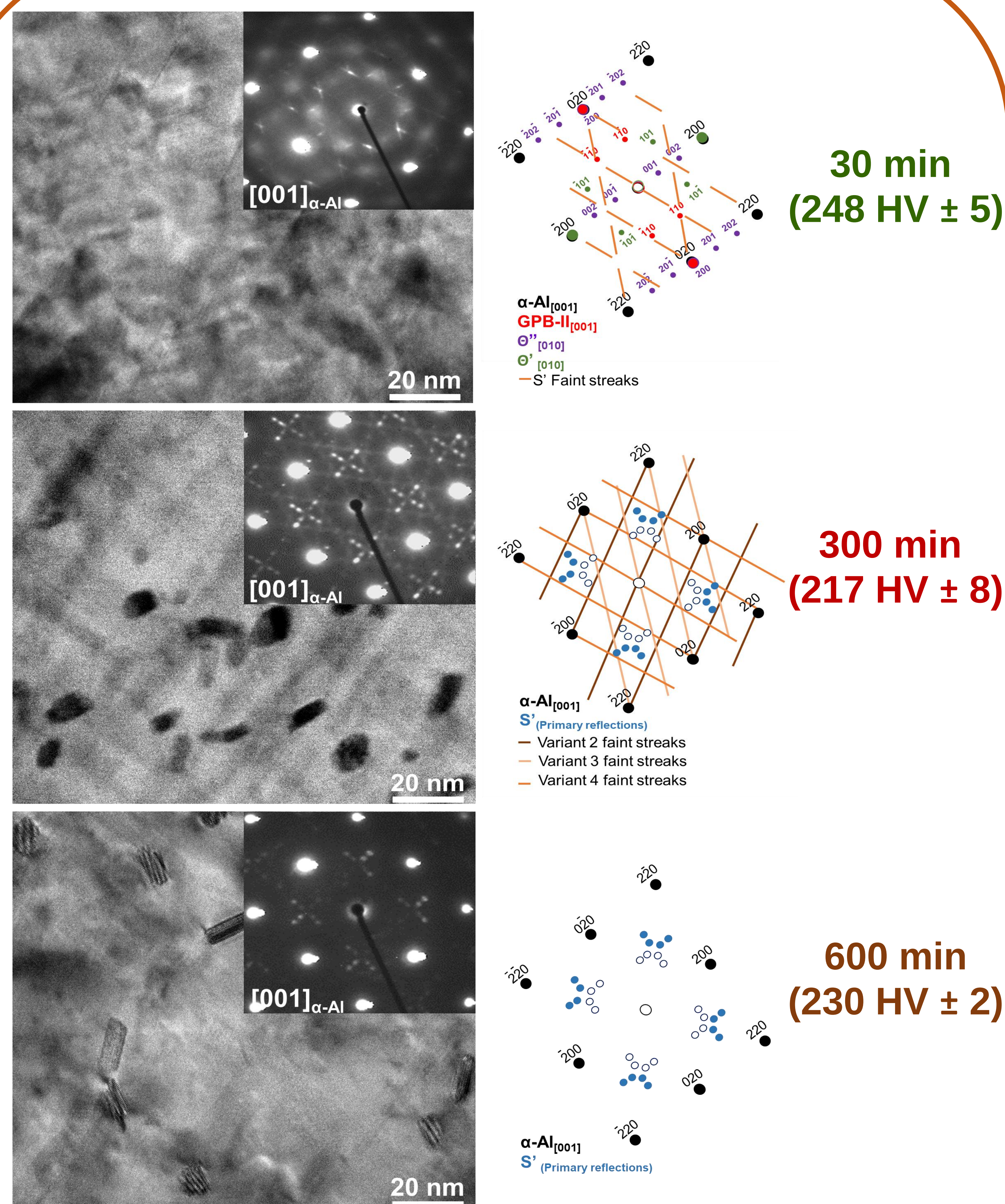
2.- OBJETIVES

1. To evaluate the effect of cold rolled on the S' phase precipitation in 2024 aluminum alloy.
2. To establish a correlation between S' phase precipitation and microhardness values to different aging time.
3. To establish the S' precipitation mechanism that occurs during the aging of the 2024 aluminum alloy.

3.- METHODOLOGY



4.- RESULTS



5.- CONCLUSIONS

The cold rolled produces competition between phases θ'' , θ' and S' during the aging of the 2024 aluminum alloy, which contributes to variations in microhardness values. This behavior was attributed to the dislocations availability, the solute atoms diffusion, and the stress released during the heat treatment.

6.- REFERENCES

- [1] Li Siyu, Zhang Jin, Yang Jinlong, Deng Yunlai, Zhang Xinming., "Influence of Mg Contents on Aging Precipitation Behavior of Al-3.5Cu-xMg Alloy", Acta Metall. Sin. (Engl. Lett.), Vol. 27, No. 1, 2014, pp. 07-114.

7.- ACKNOWLEDGMENTS

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