

DAFTAR PUSTAKA

- Abedin, S. Z. (2001). *Journal of Applied Electrochemistry*, 31(6), 711–718.
<https://doi.org/10.1023/a:1017587911095>
- Ahsan, M., Gasem, Z. (2004). Corrosion fatigue crack growth inhibition of
duplex stainless steel. *Damage and Fracture Mechanics VIII*.
- Aljamali., N. M. Bohsin., N. Ali. (2019). Review on Corrosion and Rust Inhibition
of Machines in Chemical Engineering Field. *International Journal of
Thermodynamics and Chemical Kinetics*, 5(1).
- ASTM E647 – Standard Test Method for Measurement of Fatigue Crack Growth
Rates, 2017, ASTM International
- ASTM E8 – *Standard Test Method for Tension Testing of Metallic Materials*, 2010,
West Conshohocken.
- ASTM E92-82 – Standard Test Method for Vickers Hardness of Metallic Materials,
2003, ASTM International
- ASTM International. (1990). *Specification for Aluminum and Aluminum-Alloy
Sheet and Plate*. <https://doi.org/10.1520/b0209-02>
- Benmohamed, M., Benmounah, A., Haddad, and Yahi, S. (2022). The effect of
inhibiting molybdate used in anodizing-conversion treatment to improve
corrosion protection of AA2030 aluminum alloy in different steps. *Journal
of Engineering and Applied Science*, 69(1).
<https://doi.org/10.1186/s44147-022-00090-8>
- Ed, H. J. (1984). *Aluminum - properties and physical metallurgy* (5th ed.). ASM

International.

Esin, V. A., Briez, L., Sennour, M., Köster, A., Gratiot, E., and Crépin, J. (2021).

Precipitation-hardness map for Al–Cu–Mg alloy (AA2024-T3). *Journal of Alloys and Compounds*, 854, 157164.

<https://doi.org/10.1016/j.jallcom.2020.157164>

Fayomi, O. S., Popoola, A. P., and Udoeye, N. E. (2017). Effect of alloying element on the integrity and functionality of aluminium-based alloy.

Aluminium Alloys - Recent Trends in Processing, Characterization, Mechanical Behavior and Applications.

<https://doi.org/10.5772/intechopen.71399>

P. Gallo., M. Guglielmo., J. Romanoff., and H. Remes. (2018). Influence of crack tip plasticity on fatigue behaviour of laser stake-welded T-joints made of thin plates. *International Journal of Mechanical Sciences*, 136, 112–123.

<https://doi.org/10.1016/j.ijmecsci.2017.12.011>

Garchani, F. E., and Kabiri, M. R. (2023). Study on characteristics of heat treatment of the AA2024 aluminum alloys. *Journal of Multidisciplinary Applied Natural Science*, 3(2), 122–130. <https://doi.org/10.47352/jmans.2774-3047.166>

Gangloff, R. P. (2005). Gaseous hydrogen embrittlement of materials in Energy Technologies. Woodhead Publishing.

George. (2023). Aerospace Fasteners: Use in Structural Application. *Routledge Handbooks Online*.

routledgehandbooks.com/doi/10.1201/9781351045636-140000240

O. Gharbi., S. Thomas., C. Smith., and N. Birbilis. (2018). Chromate replacement:

what does the future hold? *Npj Materials Degradation*, 2(1).

<https://doi.org/10.1038/s41529-018-0034-5>

Gong, B. S., Z. J. Zhang., J. P. Hou., Q. Q. Duan., X. G. Wang., and Z. F. Zhang.

(2022). Effect of aging state on corrosion fatigue properties of 7075

aluminum alloy. *International Journal of Fatigue*, 161, 106916.

<https://doi.org/10.1016/j.ijfatigue.2022.106916>

E. Grigiotti., F. Laschi., P. Zanello., M. Arca., C. Denotti., and F. A. Devillanova.

(2004). Metal-Dithiolenes of disubstituted imidazolidine-2,4,5-trithione

monoanion. an electrochemical and EPR study. *Portugaliae Electrochimica*

Acta, 22(1), 25–41. <https://doi.org/10.4152/pea.200401025>

A. Huerta., A. I. Olivia., F. Aviles., J. Gonzales-Hernandes., and J. E. Corona.

(2012). Elastic modulus determination of Al-cu film alloys prepared by

thermal diffusion. *Journal of Nanomaterials*, 2012, 1–8.

<https://doi.org/10.1155/2012/895131>

Ilman, M. N. (2014). Chromate inhibition of environmentally assisted fatigue crack

propagation of aluminium alloy AA 2024-T3 in 3.5% NaCl solution.

International Journal of Fatigue, 62, 228–235.

<https://doi.org/10.1016/j.ijfatigue.2013.03.008>

M. N. Ilman., F. F. Wibowo., Sehono. (2023). The use of nitrate for inhibiting

corrosion fatigue crack growth of aircraft AA7050 aluminium alloy in 3.5%

NaCl solution. *AIP Conference Proceedings*.

<https://doi.org/10.1063/5.0114908>

Jones, D. A. (1991). *Principles and prevention of corrosion* (1st ed.). Prentice-Hall.

Joseph, O. O., Dirisu, J. O., Aluko, O. M., Loto, R. T., Urias, T. B. (2023). A

comparative analysis on the effects of sodium nitrate and hexamine on the corrosion of aluminium alloy in an acidic environment. *Materials Today: Proceedings*. <https://doi.org/10.1016/j.matpr.2023.06.404>

Kamath, G. M., Mangalgiri, P. D., Shet, A. (2022). A quantitative assessment of the impact of corrosion on fatigue life of aircraft components. *Engineering Failure Analysis*, 133, 105973.
<https://doi.org/10.1016/j.engfailanal.2021.105973>

Keddam, M. (2002). Anodic Dissolution. *Corrosion Mechanisms in Theory and Practice*, 97–169. <https://doi.org/10.1201/9780203909188.ch4>

Lee, H. S. (2018). Corrosion Effects on the Fatigue Crack Propagation of Giga-Grade Steel and its Heat Affected Zone in pH Buffer Solutions for Automotive Application. *IOP Conference Series: Materials Science and Engineering*, 317, 012023. <https://doi.org/10.1088/1757-899x/317/1/012023>

Lopez-Garrity, O., Frankel, G. S. (2014). Corrosion inhibition of aluminum alloy 2024-T3 by sodium molybdate. *Journal of The Electrochemical Society*, 161(3). <https://doi.org/10.1149/2.044403jes>

Liu, D., & Pons, D. (2018). Crack Propagation Mechanisms for Creep Fatigue: A Consolidated Explanation of Fundamental Behaviours from Initiation to Failure. *Metals*, 8(8), 623. <https://doi.org/10.3390/met8080623>

X. Liu., G. S. Frankel., B. Zoofan., and S. I. Rokhlin. (2006). Transition from Intergranular Corrosion to Intergranular Stress Corrosion Cracking in AA2024-T3. *Journal of The Electrochemical Society*, 153(2). <https://doi.org/10.1149/1.2142288>

- X. Liu., Y. Li., L. Lei., and X. Wang. (2021). The effect of nitrate on the corrosion behavior of 7075-T651 aluminum alloy in the acidic NaCl solution. *Materials and Corrosion*, 72(9), 1478–1487. <https://doi.org/10.1002/maco.202112280>
- Lynch, S. P. (1984). A fractographic study of gaseous hydrogen embrittlement and liquid-metal embrittlement in a tempered-martensitic steel. *Acta Metallurgica*, 32(1), 79–90. [https://doi.org/10.1016/0001-6160\(84\)90204-9](https://doi.org/10.1016/0001-6160(84)90204-9)
- Lopez-Garrity, O., and Frankel, G. S. (2014). Corrosion inhibition of aluminum alloy 2024-T3 by sodium molybdate. *Journal of The Electrochemical Society*, 161(3). <https://doi.org/10.1149/2.044403jes>
- McCafferty, E. (1979). *Introduction to corrosion science*. Springer New York.
- Papavinasam, S. (2011). Corrosion inhibitors. *Uhlig's Corrosion Handbook*, 1021–1032. <https://doi.org/10.1002/9780470872864.ch71>
- Proton, V., Alexis, J., Andrieu, E., Delfosse, J., Lafont, M.-C., and Blanc, C. (2013). Characterisation and understanding of the corrosion behaviour of the Nugget in a 2050 aluminium alloy friction stir welding joint. *Corrosion Science*, 73, 130–142. <https://doi.org/10.1016/j.corsci.2013.04.001>
- Rana, R. S., Tiwari, S. K., Soni, S., Singh, A. (2017). Effect of heat treatment on mechanical properties of aluminium alloy-fly ash metal matrix composite. *Materials Today: Proceedings*, 4(2), 3458–3465. <https://doi.org/10.1016/j.matpr.2017.02.235>
- Ritchie, R. O., & Liu, D. (2021). *Introduction to fracture mechanics*. Elsevier.
- J. W. J. Silvia., E. N. Codaro., R. Z. Nakazato., and L. R. O. Hein. (2005). Influence of chromate, molybdate and tungstate on pit formation in

Chloride Medium. *Applied Surface Science*, 252(4), 1117–1122.

<https://doi.org/10.1016/j.apsusc.2005.02.030>

Smith, W. F., and Hashemi, J. (2023). *Foundations of Materials Science and Engineering*. McGraw Hill.

Tretheway, K. R., and Chamberlain, J. (1995). *Corrosion for students of Science and Engineering* (4th ed.). Longman.

Tudose, L., and Popa, C. (2007). Stress Intensity Factors Analysis on Crack in The Hertzian Stresses Field of Teeth Gears. *Applied Mechanics and Materials*, 823, 17–22.

Toribio, J., Matos, J.-C., González, B. (2017). Corrosion-fatigue crack growth in plates: A model based on the Paris Law. *Materials*, 10(4), 439.

<https://doi.org/10.3390/ma10040439>

Twite, R. L., & Bierwagen, G. P. (1998). Review of alternatives to chromate for corrosion protection of aluminum aerospace alloys. *Progress in Organic Coatings*, 33(2), 91–100. [https://doi.org/10.1016/s0300-9440\(98\)00015-0](https://doi.org/10.1016/s0300-9440(98)00015-0)

Vargel, C. (2004). *Corrosion of aluminium* (1st ed.). Elsevier.

D. Wang., M. Wu., J. Ming., and J. Shi (2021). Inhibitive effect of sodium molybdate on corrosion behaviour of AA6061 aluminium alloy in simulated concrete pore solutions. *Construction and Building Materials*, 270, 121463. <https://doi.org/10.1016/j.conbuildmat.2020.121463>

W. Wang., P. Dong., H. Wang., J. Cheng and S. Liu (2019). Synergistic Corrosion Inhibition Effect of Molybdate and Phosphate Ions for Anodic Oxidation Film Formed on 2024 Aluminum Alloy. *Journal of Wuhan University of Technology-Mater. Sci. Ed.*, 34(2), 426–432.

<https://doi.org/10.1007/s11595-019-2069-z>

Wang, S., Cao, Y., Liu, X., Cai, G. (2023). In situ electrochemical monitoring of the crevice corrosion process of the 7075-T651 aluminium alloy in acidic NaCl and NaNO₃ solution. *Materials*, 16(7), 2812.

<https://doi.org/10.3390/ma16072812>

Warner, J. S., S. Kim., and R. P. Gangloff. (2009). Molybdate inhibition of environmental fatigue crack propagation in Al–Zn–Mg–Cu. *International Journal of Fatigue*, 31(11–12), 1952–1965.

<https://doi.org/10.1016/j.ijfatigue.2009.01.016>

Warner, J. S., & Gangloff, R. P. (2012). Molybdate inhibition of corrosion fatigue crack propagation in precipitation hardened Al–Cu–Li. *Corrosion Science*, 62, 11–21. <https://doi.org/10.1016/j.corsci.2012.03.038>

H. Zhao., P. Chakraborty., D. Ponge., T. Hickel., B. Sun., C. Wu., B. Gault., and D. Raabe. (2022). Hydrogen trapping and embrittlement in high-strength Al alloys. *Nature*, 602(7897), 437–441. <https://doi.org/10.1038/s41586-021-04343-z>

Zhao, J., Xia, L., Sehgal, A., Lu, D., McCreery, R. L., and Frankel, G. S. (2001). Effects of chromate and chromate conversion coatings on corrosion of aluminum alloy 2024-T3. *Surface and Coatings Technology*, 140(1), 51–57. [https://doi.org/10.1016/s0257-8972\(01\)01003-9](https://doi.org/10.1016/s0257-8972(01)01003-9)