

DAFTAR PUSTAKA.

- ASM Handbook, 2003, Volume 13a, *Corrosion: Fundamentals, Testing and Protection*.
- ASTM E8M-16a, 2016, *Standard Test Methods for Tension Testing of Metallic Materials*¹.
- ASTM E384-17, 2017, *Standard Test Methods for Microindentation Hardness of Materials*¹.
- ASTM G61-86, 2014, *Standard Test Method for Conducting Cyclic Potentiodynamic Polarization Measurements for Localized Corrosion Susceptibility of Iron, Nickel or Cobalt-Based Alloys Microindentation Hardness of Materials*¹.
- API Specification 5L, 2012, *Specification for line pipe*.
- API RP 571, Second edition, 2011, *Damage Mechanisms Affecting Fixed Equipment in the Refining Industry*.
- Alexandros, K., Mariangelica, D., Iris De, G., 2016, Encapsulation and incorporation of sodium molybdate in polyurethane Coatings and study of its corrosion inhibition on mild steel, *Surface & Coatings Technology* 303 , 330–34.
- Bastosa, A.C., Ferreiraab, M.G., Simõesa, A.M., 2005, Corrosion inhibition by chromate and phosphate extracts for iron substrates studied by EIS and SVET, *Corrosion Science* Volume 48, Issue 6, Pages 1500-1512.
- Budavari, S., 1996, The Merck Index, 12th Ed. Whitehouse Station, NJ, Merck & Co.
- Braithwaite, E.R., Haber, J., 1994, Molybdenum: Garis Besar Kimia dan Penggunaannya. *Elsevier Science BV Amsterdam*, Belanda.
- Chuan, B.Z., Cai, L., Tang, Z.J., Shen, X.L., The inhibition effect of the molybdate on hydrogen permeation of 2205 duplex stainless steel, *Surface and Coating technology* 287, 153-159.
- Danaee, M., Niknejad Khomami, Attar, A.A., 2012, Corrosion behavior of AISI 4130 steel alloy in ethylene glycolewater mixture in presence of Molybdate Materials, *Chemistry and Physics* 135, 658-667.

- Din, S.E.A.M., and Wang, L., 1996, Mechanism of corrosion inhibition by sodium molybdate, *Desalination* 107, 29-43.
- Frosio, 2007, *Surface Treatment Inspector in Accordance with NS 476*, National Institute of Technology, Norway.
- Fontana, M.G., 1986, *Corrosion Engineering*, Mc Graw Hill Book Company.
- Fajar, S. M., 2010, *Pengaruh inhibitor terhadap laju korosi pada pipa baja API 5X-42*, Departemen Teknik Mesin dan Industri, Universitas Gadjah Mada
- Gupta, R.K., Hinton, B.R.W., and Birbilis, N., 2014, The effect of chromate on the Pitting susceptibility of AA7075-T651 Studied Using Potentiostatic Transient, *Corrosion Science* 82, 197-207.
- Ioannis, A.K., Stefan, G.S., Alecs, A.M., Radu, H., Antonis, K., Costas, A.C., 2016 A comparative study of corrosion inhibitors on hot-dip galvanized steel, *Corrosion Science* 112, 289–307.
- Ilman, M.N., Kusmono, 2013, Analysis of internal corrosion in subsea oil pipeline, *Case Studies in Engineering Failure Analysis* 2, 1–8.
- Jones, D.A., 1997, *Principles and prevention of corrosion*, Metallurgical and Chemical Engineering Department, University of Nevada, Prentice Hall International, USA.
- Kjernsmo, D., Kleven, K., Schele, J., 2011, *FROSIO Corrosion Protection*, Hempel A/S, Denmark.
- Kiefner, J.F., Trench, C.J., 2001, *Oil Pipeline Characteristic and Risk Factors: Illustration from the Decade of Construction*. American Petroleum Institute's Pipeline committee, API.
- Loto, C.A., Omotosho, O.A., and Popoola, A.P.I., 2011, Inhibition effect of potassium dichromate on the corrosion protection of mild steel reinforcement in concrete, *International Journal of the Physical Sciences* Vol. 6(9), pp. 2275-2284.
- Li, X., Deng, S., Fu, H., 2011, Sodium molybdate as a corrosion inhibitor for aluminium in H₃PO₄ solution, *Corrosion Science* 53, 2748–2753.

- Mu, G., Li, X., Qu, Q., Zhou, J., 2005, Molybdate and tungstate as corrosion inhibitors for cold rolling steel in hydrochloric acid solution, *Corrosion Science* 48, 445–459.
- Martinez, S., Grozdanic, V., Ivankovic, A., SEM EDS analysis of corrosion product from the interior of a crude oil pipeline, 2012, *Scientific paper Zastita materijala* 53.
- NACE International, 2011, *Internal Corrosion for Pipelines*, student manual, The Corrosion Society, Houston USA.
- NACE International, 2011, *Coating Inspector Program Level 1*, Student Manual, The Corrosion Society, Houston USA.
- Papavinasam, S., 2000, *Uhlig's Corrosion handbooks*, Jhon Wiley & Sons, Inc., USA.
- Peabody, A.W., 2001, *Control of Pipeline Corrosion*, NACE International The Corrosion Society, Houston USA.
- Roberge, P.R., 2000, *Handbook of Corrosion Engineering*, McGraw-Hill Book Company, New York
- Rico, Y., Bidegain, J.C., and Elsner, C.I., 2004, Synthetic and natural Iron oxide characterization through microparticle voltammetry, *Geofis. Intl* vol.48 no.2.
- Revie, R.W., and Uhlig, H.H., 2008, *An Introduction to Corrosion Science and Engineering*, Jhon Wiley & Sons, Inc., New Jersey
- Schaffer, P.J, Saxena, A., Antolovich, S.D., Sanders, T. H., Warner, S.B., 2000, *The Science and Design of Engineering Materials*. McGraw-Hill Higher Education.
- Saugo, M., Flamini, D.O., Zampieri, G., Saidman, S.B., 2017, Corrosion resistance improvement of nitinol by anodisation in the presence of molybdate ions, *Materials Chemistry and Physics* 190, 136-145.
- Slat, W.S., Malau, V., Iswanto, P.T., 2018, the Effect of Shot peening Treatment on the Corrosion Rate of HQ 805 Machinery Steel, *International journal of mechanical & mechanical engineering IJMME-IJENS*, 18,14.

- Tobón, C.A., Salcedo, G.J.G., Velázquez, G.J.L., Cruz, D.M., 2014, Corrosion Rates of API 5L X-52 and X-65 Steels in Synthetic *Brines* and *Brines* with H₂S as a Function of Rate in a Rotating Cylinder Electrode, *Int. J. Electrochem. Sci.*, 9, 2454 – 2469.
- Vukasovich, M. S., 1980, *Lubrication Engineering*. 36 (12). 708-12.
- Wildan, W.M., *Pengujian dan Karakterisasi Material*, Departemen Teknik Mesin dan Industri, Universitas Gadjah Mada.
- Zheng, C., Cai, L., Tang, Z., Shen, X., 2016, The inhibition effect of the molybdate on hydrogen permeation of 2205 duplex stainless steel, *surface and coating technology* 287, 153-159
- Zhou, Y., Zuo, Y., 2015, The inhibitive mechanisms of nitrite and molybdate Anions on initiation and propagation of pitting corrosion for mild steel in chloride solution, *Applied Surface Science* 353, 924–932
- Zhou, Y., Zuo Y., and Lin, B., 2017, The compounded inhibition of sodium molybdate and benzotriazole on pitting corrosion of Q235 steel in NaCl + NaHCO₃ solution, *Materials, Chemistry and Physics* 192, 86-93.
- Zuhry, M., 2016, *Studi komparasi inhibitor kromat (CrO₄²⁻), molybdat (MoO₄²⁻) dan nitrat (NO₃⁻) terhadap korosi dan laju perambatan retak fatik – korosi AA 7050 daam media 3,5% NaCl*. Departemen Teknik Mesin dan Industri, Universitas Gadjah Mada