

DAFTAR PUSTAKA

- [1] A. Ambroziak, A. Lange, P. Białucki, W. Derlukiewicz, and E. Szymczak, “Comparison of properties of Al-Cu soldered and resistance welded joints,” *Welding Technology Review*, Vol. 92, No. 2, pp. 25–32, Mar. 2020.
- [2] T. Coetsee and F. De Bruin, “Chemical Interaction of Cr-Al-Cu Metal Powders in Aluminum-Assisted Transfer of Chromium in Submerged Arc Welding of Carbon Steel,” *Processes*, Vol. 10, No. 2, Feb. 2022.
- [3] J. P. Bergmann, F. Petzoldt, R. Schürer, and S. Schneider, “Solid-state welding of aluminum to copper - Case studies,” *Welding in the World*, Vol. 57, No. 4, pp. 541–550, Jul. 2013.
- [4] Y. Firmansyah and K. Sekaran Gunungpati Semarang, “Analisis Kekuatan Tarik Sambungan Aluminium (Al) dan Tembaga (Cu) pada Pengelasan Gesek (Friction Welding) Dengan Variasi Waktu Gesek dan Tempa,” *rotasi*, Vol. 23 No. 3 (Juli 2021) Hal. 9-15.
- [5] K. Anam, A. Syuhri, and H. Sutjahjono, “pengaruh waktu tempa dan tekanan tempa terhadap sifat mekanik aisi 1045 pada proses friction welding,” *Jurnal stator*, Vol. 1 No. 1, Januari 2018.
- [6] R. Winiczenko, “Effect of friction welding parameters on the tensile strength and microstructural properties of dissimilar AISI 1020-ASTM A536 joints,” *International Journal of Advanced Manufacturing Technology*, Vol. 84, No. 5–8, pp. 941–955, May 2016,
- [7] Nuriadi, M. Napitupulu dan N. Rahman, “Analisis logam tembaga (Cu) pada buangan limbah tromol (tailing) pertambangan poboya”, *Jurnal Akademika Kimia*, Vol 2, No. 2, 2013: 90-96.

- [8] U. Sukamto, D. Probowati, and A. Sudiyanto, “Proses Pengolahan dan Pemurnian Bijih Tembaga dengan Cara Konvensional dan Biomining”. Prosiding Seminar Nasional Teknik Kimia ‘Kejuangan’ 18 Maret 2015, ISSN 1693-4393.
- [9] G. E. Dieter, “Metallic Materials Specification Handbook,” *International Metallurgical Reviews*, Vol. 18, No. 4, pp. 191–191, 1973,
- [10] B. Rina, A. Safitri, and D. Lintang Pratama, “analisis kandungan mineral tembaga (cu) yang terdapat pada struktur batu tambang dengan metode atomic absorption spectrophotometer (AAS)”, *Jurnal Ilmiah IKIP Mataram* Vol. 5. No.2 ISSN:2355-6358.
- [11] “copper casting alloys” Copper Development Association Inc., 260 Madison Avenue, New York, NY 10016. 1994.
- [12] F. Dalla Torre, R. Lapovok, J. Sandlin, P. F. Thomson, C. H. J. Davies, and E. V. Pereloma, “Microstructures and properties of copper processed by equal channel angular extrusion for 1-16 passes,” *Acta Mater.*, Vol. 52, No. 16, pp. 4819–4832, Sep. 2004,
- [13] Perrin. Walker and W. H.Tarn, *Handbook of metal etchants*. CRC Press, Los Angeles, California, 1991.
- [14] T. Surdia, dan S. Saito “Pengetahuan Bahan Teknik”, PT. Pradnya Paramita, Jakarta 13140.
- [15] Mardjuki, “Sifat kekerasan paduan Al-Cu dari hasil proses perlakuan panas penuaan (Aging)”, *Transmisi*, Vol.6 Edisi 1 Hal. 549 – 556.
- [16] M. S. Tahat, N. A. Emira, and H. T. Mohamad, “Study of the Mechanical Properties of Heat Treated 6063 Aluminum Alloy,” *Recent Patents on Mechanical Engineering*, Vol. 3, No. 2, pp. 145–148, Jun. 2010,

- [17] Md. Abdul Karim and Y.-D. Park, “A Review on Welding of Dissimilar Metals in Car Body Manufacturing,” *Journal of Welding and Joining*, Vol. 38, No. 1, pp. 8–23, Feb. 2020,
- [18] E. Akca and A. Gürsel, “Solid State Welding and Application in Aeronautical Industry,” *Periodicals of Engineering and Natural Sciences (PEN)*, Vol. 4, No. 1, Feb. 2016,
- [19] M.R. Gita Firmansyah, Solichin, dan Rr. Poppy Puspitasari, “Analisis Kecepatan Putar, Durasi Gesek dan Tekanan Terhadap Kekuatan Tarik Hasil Pengelasan Gesek (Friction Welding).” *Jurnal Teknik Mesin Dan Pembelajaran*, Vol 1, No 2, Hal 1-5 Des 2018
- [20] B. S. Yilba A, A. Z. Ahin, N. Kahraman, and A. Z. A1-Garni, “Friction welding of St-A1 and A1-Cu materials” *Journal of Materials Processing Technology* 49 (1995) 431-443, 1995.
- [21] S. Deokar, “A Review Paper on Rotary Friction Welding Design and Analysis of Solar Structural and Mountings for Solar Panel View project Design And Structural Analysis Of Heavy Duty Industrial Blower Casing Using FEA View project,” *International Conference on Ideas, Impact and Innovation in Mechanical Engineering*, Vol 5 Issue 6, 2017.
- [22] M. Maalekian, “Friction welding - Critical assessment of literature”, *Science and Technology of Welding and Joining*, Vol.12 No.8, Nov. 2007.
- [23] H. Ghari, A. Taherizadeh, B. Sadeghian, B. Sadeghi, and P. Cavaliere, “Metallurgical characteristics of aluminum-steel joints manufactured by rotary friction welding: A review and statistical analysis,” *Journal of Materials Research and Technology*, Vol. 30, pp. 2520–2550, May 2024.

- [24] A. Purnomo, “struktur mikro sambungan friction welding antara bahan paduan tembaga dan paduan aluminium akibat waktu tekanan berbeda”, *Mechanical Engineering Department*, Vol.10 No.3, 2015
- [25] R. Denti Salindeho, J. Soukota, R. Poeng, J. Teknik, M. Universitas, and S. Ratulangi, “pemodelan pengujian tarik untuk menganalisis sifat mekanik material.” *Jurnal poros teknik mesin*, Vol.2 NO.2. 2013
- [26] E. Koswara and H. Budiman, “perancangan mesin uji tarik untuk spesimen aluminium dengan kapasitas 5 ton”, *Jurnal J-Ensitet*: Vol 02|No. 02, Mei 2016.
- [27] F.A.Rauf, F.P. Sappu, A.M.A. Lakat “Uji kekerasan dengan menggunakan alat microhardness vicker pada berbagai jenis material teknik”, *Jurnal teknologi mesin*, Vol.5 No.1 Okt 2018
- [28] M. Feby Kumayatasari, “Studi Uji Kekerasan Rockwell Superficial VS Micro Vickers Comparation Study Of Hardness Testing By Using Rockwell Superficial VS Microvickers”, *jurnal teknologi proses dan inovasi industri*, Vol. 2, No. 2, november 2017.
- [29] A. Sasmito, M. N. Ilman, P. T. Iswanto, and R. Muslih, “Effect of Rotational Speed on Static and Fatigue Properties of Rotary Friction Welded Dissimilar AA7075/AA5083 Aluminium Alloy Joints,” *Metals (Basel)*, Vol. 12, No. 1, Jan. 2022,
- [30] M. A. Marir, E. L. Sheng, I. O. Bachti, and M. R. Isa, “Tensile efficiency and fatigue life of similar and dissimilar carbon steel joints subjected to rotary friction welding,” *Journal of Advanced Joining Processes*, Vol. 8, Nov. 2023,

- [31] Ahmadil Amin “pengaruh variasi beban gesek terhadap struktur mikro axle shaft hasil sambungan friction welding”, *Jurnal Teknik Mesin uniska* Vol. 03 No. 01 November 2017
- [32] B. Margono, H. Indra Atmaja, J. Wibowo, J. Teknik Mesin, and A. Teknologi Warga Surakarta, “Pengaruh Tekanan dan Waktu Pengelasan pada Pengelasan Gesek (Friction Welding) terhadap Sifat Fisik dan Mekanik Sambungan Logam Tak Sejenis antara AISI 316 dan AISI 4140,” *Prosiding SNTM Re-ACT.* 2019, | eISSN 2720-9547.
- [33] B. Margono, A. Alfayed, R. Faisal Rananto, J. Teknik Mesin, A. “Investigasi Sifat Fisik Dan Mekanik Sambungan Las Logam Tak Sejenis Antara Baja Tahan Karat Aisi 316 Dengan Baja Paduan Aisi 4340menggunakan Rotary Friction Welding” *Prosiding IENACO*, 2020, ISSN : 2337 – 4349
- [34] Y. Ono, S. Ogawa, and Y. Tachi, “Evaluation of Torsional Characteristics of 6061-T6 Aluminum Alloy Friction-welded Butt Joints using Digital Image Correlation”, *Advanced experimental mechanics*, Vol.5, 2020, 103-109.
- [35] H. Santoso, S. Surahto, F. D. Ekawati “Jurnal Asiimetrik: Jurnal Ilmiah Rekayasa Dan Inovasi The Effect of Rotation Speed on the Quality of Friction Welding Joints in Aluminum and Copper Article information,” *Jurnal asiimetri: jurnal ilmiah rekayasa dan inovasi*, Vol.6 No.2, Hal 309-318, Jul 2024.
- [36] B. L. Sanyoto, N. Husodo, B. Setyawati, and M. Mursid, “Penerapan Teknologi Las Gesek (Friction Welding) Dalam Proses Penyambungan Dua Buah Pipa Logam Baja Karbon Rendah”, *Jurnal Energi dan Manufaktur* Vol.5, No.1, Oktober 2012: 1-97.