

DAFTAR PUSTAKA

- Abed, B. H., Salih, O. S., & Sowoud, K. M. (2020). Pinless friction stir spot welding of aluminium alloy with copper interlayer. *Open Engineering*, 10(1), 804–813. <https://doi.org/10.1515/eng-2020-0090>
- Armansyah, A., Saedon, J., Ho, H. C., & Adenan, S. (2020). Investigation on Parameter Contribution to the Property of Weld Joint AA5052-H112 Sheets in Friction Stir Spot Welding under Fatigue Load and Failure Mode. *Applied Mechanics and Materials*, 899, 117–125.
- Armansyah, Astuti, W., Saedon, J., Ho, H. C., & Adenan, S. (2018). Load level prediction system model of friction stir spot welded aluminium alloy using support vector machine. *IOP Conference Series: Earth and Environmental Science*, 195(1). <https://doi.org/10.1088/1755-1315/195/1/012033>
- Armansyah, Kuncoro, C. B. D., Wiguna, R., Firmansyah, R., & Rianto, R. B. (2024). Tensional Shear Load Characterization of Pin-less Friction Stir Spot Welding on Aluminium 1100-H12 Based on Varied Parameters. *AIP Conference Proceedings*, 3115(1). <https://doi.org/10.1063/5.0207276>
- Atak, A. (2020). Impact of pinless stirring tools with different shoulder profile designs on friction stir spot welded joints. *Journal of Mechanical Science and Technology*, 34, 3735–3743.
- Bakavos, D., Chen, Y., Babout, L., & Prangnell, P. (2011). Material interactions in a novel pinless tool approach to friction stir spot welding thin aluminum sheet. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, 42(5), 1266–1282. <https://doi.org/10.1007/s11661-010-0514-x>
- Chris Roshan, C., Vasanth Ram, H., & Solomon, J. (2019). Non-destructive testing by liquid penetrant testing and ultrasonic testing-A review. *International Journal of Advance Research, Ideas and Innovations in Technology*, 5(2), 694–697. www.IJARIT.com
- Cox, C. D., Aguilar, J. R., Ballun, M. C., Strauss, A. M., & Cook, G. E. (2014). The application of a pinless tool in friction stir spot welding: An experimental and numerical study. *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*, 228(11), 1359–1370. <https://doi.org/10.1177/0954407013517374>

Ridwan Bambang Rianto, 2025

ANALISIS SIFAT MEKANIS HASIL PINLESS FRICTION STIR SPOT WELDING PADA ALUMINIUM ALLOY 1100 BERDASARKAN VARIASI TIPE TOOL DAN PARAMETER PROSES

UPN Vetetan Jakarta, Fakultas Teknik, S1 Teknik Mesin

[www.upnvj.ac.id - www.library.upnvj.ac.id - www.repository.upnvj.ac.id]

- F, A. S., Sumarji, & Darsin, M. (2015). ANALISIS SIFAT MEKANIK HASIL PENGELASAN ALUMINIUM AA 1100 DENGAN METODE FRICTION STIR WELDING (FSW) ANALISIS SIFAT MEKANIK HASIL PENGELASAN ALUMINIUM AA 1100 Mahasiswa Jurusan Teknik Mesin , Fakultas Teknik , Dosen Jurusan Teknik Mesin , Fakultas Teknik. *Rotor*, 5(December 2010), 50–61.
- Ge, X., Jiang, D., Song, W., & Wang, H. (2023). Effects of Tool Plunging Path on the Welded Joint Properties of Pinless Friction Stir Spot Welding. *Lubricants*, 11(3). <https://doi.org/10.3390/lubricants11030150>
- Gupta, M., Khan, M. A., Butola, R., & Singari, R. M. (2022). Advances in applications of Non-Destructive Testing (NDT): A review. *Advances in Materials and Processing Technologies*, 8(2), 2286–2307. <https://doi.org/10.1080/2374068X.2021.1909332>
- Hart, E. W. (1967). Theory of the tensile test. *Acta Metallurgica*, 15(2), 351–355. [https://doi.org/10.1016/0001-6160\(67\)90211-8](https://doi.org/10.1016/0001-6160(67)90211-8)
- Kurniati, I. D., Setiawan, R., Rohmani, A., Lahdji, A., Tajally, A., Ratnaningrum, K., Basuki, R., Reviewer, S., & Wahab, Z. (2015). *Buku Ajar*.
- Li, W., Li, J., Zhang, Z., Gao, D., Wang, W., & Dong, C. (2014). Improving mechanical properties of pinless friction stir spot welded joints by eliminating hook defect. *Materials & Design (1980-2015)*, 62, 247–254.
- Najm, S. M., Paniti, I., Trzepieciński, T., Nama, S. A., Viharos, Z. J., & Jacso, A. (2021). Parametric effects of single point incremental forming on hardness of AA1100 aluminium alloy sheets. *Materials*, 14(23). <https://doi.org/10.3390/ma14237263>
- Prangnell, P. B., & Bakavos, D. (2010). Novel approaches to friction spot welding thin aluminium automotive sheet. *Materials Science Forum*, 638–642, 1237–1242. <https://doi.org/10.4028/www.scientific.net/MSF.638-642.1237>
- Putra Utama, A. R., Muhyat, N., & Triyono, T. (2019). Pengaruh volume Zn terhadap kekerasan dan struktur mikro pada friction stir processing aluminium AA 1100. *Jurnal Teknik Mesin Indonesia*, 14(2), 42–46. <https://doi.org/10.36289/jtmi.v14i2.129>
- Reinhardt, H. W., Cornelissen, H. A. W., & Hordijk, D. A. (1986). Tensile Tests and

Failure Analysis of Concrete. *Journal of Structural Engineering*, 112(11), 2462–2477. [https://doi.org/10.1061/\(asce\)0733-9445\(1986\)112:11\(2462\)](https://doi.org/10.1061/(asce)0733-9445(1986)112:11(2462))

Suryanarayanan, R., & Sridhar, V. G. (2020). Effect of Process Parameters in Pinless Friction Stir Spot Welding of Al 5754-Al 6061 Alloys. *Metallography, Microstructure, and Analysis*, 9(2), 261–272. <https://doi.org/10.1007/s13632-020-00626-5>

Vijayasarathi, P., & Selvam, D. C. (2014). Investigation and Analysis of Metallurgical and Mechanical Properties of AA1100 using FSW. *International Journal of Research*, 1(7), 1221–1230.