

DAFTAR PUSTAKA

www.itk.ac.id

- Adawiyah, M. A. R. and Azlina, O. S. (2017) „Solder Volume Effect on Interfacial Reaction between Sn-Ag-Cu/ENImAg Substrate“, *Procedia Engineering*. Elsevier B.V., 184, pp. 604–610. doi: 10.1016/j.proeng.2017.04.157.
- Akca, E. and Trgo, E. (2015) „Metallographic Procedures and Analysis – A review“, *Periodicals of Engineering and Natural Sciences (PEN)*, 3(2). doi: 10.21533/pen.v3i2.51.
- An, T. and Qin, F. (2014) „Effects of the intermetallic compound microstructure on the tensile behavior of Sn_{3.0}Ag_{0.5}Cu/Cu solder joint under various strain rates“, *Microelectronics Reliability*. Elsevier Ltd, 54(5), pp. 932–938. doi: 10.1016/j.microrel.2014.01.008.
- Bernasko, Peter Kojo. (2012). “Study Intermetallic Compound Layer Formation, Growth and Evaluation of Shear Strength of Lead-Free Solder Joint”, Electronic Manufacturing Egineering Research Group (EMERG) School of Engineering : University of Greenwich, Uk
- Chen, Haiyan & Huang, Liyang & Guo, Li. (2019). The Evolution of Microstructures and Mechanical Properties of SnAgCu/Cu Weld Interface during Isothermal Aging. IOP Conference Series: Materials Science and Engineering. 585. 012015. 10.1088/1757-899X/585/1/012015
- Ellingham, S. T. D., Thompson, T. J. U. and Islam, M. (2018) „Scanning Electron Microscopy–Energy-Dispersive X-Ray (SEM/EDX): A Rapid Diagnostic Tool to Aid the Identification of Burnt Bone and Contested Cremains“, *Journal of Forensic Sciences*, 63(2), pp. 504–510. doi: 10.1111/1556-4029.13541.
- Gu, H. (2014) „Interfacial Reaction of Sn-Based Solder Joint in The Package System“, (August).
- Hare, B. E. and Ph, D. (2013) „Intermetallics in Solder Joints“, *SEM Lab, Inc.*, (April).
- Hu, X. et al. (2016) „Effects of post-reflow cooling rate and thermal aging on

- growth behavior of interfacial intermetallic compound between SAC305 solder and Cu substrate", *Applied Physics A: Materials Science and Processing*. Springer Berlin Heidelberg, 122(4), pp. 1–10. doi: 10.1007/s00339-016-9893-1.
- Karl J., P. and Kathleen A., S. (2004) *Handbook of Lead-Free Solder Technology for Microelectronic Assemblies*. New York, USA: Marcel Dekker, Inc.
- Laksono, A. D. et al. (2019) „Interfacial reaction between sn and cu-ti alloy (C1990hp)“, *Materials Science Forum*, 964 MSF, pp. 263–269. doi: 10.4028/www.scientific.net/MSF.964.263.
- Lee, L. M., Haliman, H. and Mohamad, A. A. (2013) „Interfacial reaction of a Sn-3.0Ag-0.5Cu thin film during solder reflow“, *Soldering and Surface Mount Technology*, 25(1), pp. 15–23. doi: 10.1108/09540911311294560.
- Lee, L. M. and Mohamad, A. A. (2013) „Interfacial reaction of Sn-Ag-Cu lead-free solder alloy on Cu: A review“, *Advances in Materials Science and Engineering*, 2013. doi: 10.1155/2013/123697.
- Leng, Y. (2013) *Materials Characterization*. Second. Weinheim, Germany: Wiley-VCH Verlag GmbH & Co.
- Manoj Kumar, P. et al. (2018) „Investigating the Microstructural and Mechanical Properties of Pure Lead-Free Soldering Materials (SAC305 & SAC405)“, *Powder Metallurgy Progress*, 18(1), pp. 49–57. doi: 10.1515/pmp-2018-0006.
- Pan, J. et al. (2006) „Effect of reflow profile on SnPb and SnAgCu solder joint shear force“, *IPC - Printed Circuits Expo, Apex, and the Designers Summit 2006: Perfectly Cutting Edge*, 2(lmc), pp. 1010–1019.
- Pan, J. et al. (2009) „Effects of reflow profile and thermal conditioning on intermetallic compound thickness for SnAgCu soldered joints“, *Soldering and Surface Mount Technology*, 21(4), pp. 32–37. doi: 10.1108/09540910910989411.
- Ray, A. K., Kar, A. and Ghosh, M. (2007) „Microstructural characterization of tin lead and lead free solder joint interface Abstract : Introduction “; pp. 29–30.
- Salam, B., Ekere, N. N. and Rajkumar, D. (2001) „Study of the interface microstructure of Sn-Ag-Cu lead-free solders and the effect of solder

volume on intermetallic layer formation“, *Proceedings - Electronic Components and Technology Conference*, 00(C), pp. 471–477. doi: 10.1109/ectc.2001.927769.

Sun, L. and Zhang, L. (2015) „Properties and microstructures of Sn-Ag-Cu-X lead-free solder joints in electronic packaging“, *Advances in Materials Science and Engineering*, 2015(March). doi: 10.1155/2015/639028.

Surender Kumar, S. (2018) *Handbook of Materials Characterization, Handbook of Materials Characterization*. doi: 10.1007/978-3-319-92955-2_3.

Tan, C. Y., Mohd Arif Anuar Mohd Salleh and Saud, N. (2020) „The study of interfacial reaction between SnAgCu (SAC) lead-free solder alloys and copper substrate: A short review“, *IOP Conference Series: Materials Science and Engineering*, 864(1). doi: 10.1088/1757-899X/864/1/012182.

Ting Tan, A., Wen Tan, A. and Yusof, F. (2015) „Influence of nanoparticle addition on the formation and growth of intermetallic compounds (IMCs) in Cu/Sn-Ag-Cu/Cu solder joint during different thermal conditions“, *Science and Technology of Advanced Materials*. IOP Publishing, 16(3). doi: 10.1088/1468-6996/16/3/033505.

Wang, Q., Gail, W. F. and Johnson, R. W. (2005) „Mechanical Properties and Microstructure of Sn-Ag-Cu-Ni-Ge Lead Free Solder“, *Journal of The Japan Institute of Electronics Packaging*, 8(6), pp. 495–501. doi: 10.5104/jiep.8.495.

Xu, T. et al. (2017) „The growth behavior of interfacial intermetallic compound between Sn-3.5Ag-0.5Cu solder and Cu substrate under different thermal-aged conditions“, *Journal of Materials Science: Materials in Electronics*. Springer US, 28(24), pp. 18515–18528. doi: 10.1007/s10854-017-7799-0.

Yen, Y. W., Laksono, A. D. and Yang, C. Y. (2019) „Investigation of the interfacial reactions between Sn-3.0 wt%Ag-0.5 wt%Cu solder and Cu[Ti] alloy (C1990HP)“, *Microelectronics Reliability*. Elsevier, 96(January), pp. 29–36. doi: 10.1016/j.microrel.2019.03.006.

Zeng, G. et al. (2010) „A review on the interfacial intermetallic compounds between Sn-Ag-Cu based solders and substrates“, *Journal of Materials Science: Materials in Electronics*, 21(5), pp. 421–440. doi: 10.1007/s10854-

010-0086-y.

Zhang, Y. (2010) „The Effects of Aging on the Mechanical Behavior of Lead Free and Mixed Formulation Solder Alloys“, *Ayan*, 8(2), p. 2019. Available at: https://barnard.edu/sites/default/files/inline/student_user_guide_for_spss.pdf %0Ahttp://www.ibm.com/support%0Ahttp://www.spss.com/sites/dm-book/legacy/ProgDataMgmt_SPSS17.pdf%0Ahttps://www.neps-data.de/Portals/0/Working Papers/WP_XLV.pdf%0Ahttp://www2.psy.

