Universidad Carlos III de Madrid

TESIS DOCTORAL

Processing and properties of high performance 7075 Al and AZ91 Mg powder metallurgy alloys

Relación de las publicaciones incluidas en el anexo de la tesis

Author:

Mohammad Ali Jabbari Taleghani

Director:

Dr. José Manuel Torralba Castelló

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Paper AL I:
M.A. Jabbari Taleghani, E.M. Ruiz Navas, M. Salehi, J.M. Torralba*. Optimisation of mechanical milling process for the production of AA7075 /(SiC or TiB2) composite powders***.** Powder Metallurgy, 55(4) (2012) 280-286
URI: http://hdl.handle.net/10016/20536

Paper AL II:
M.A. Jabbari Taleghani, J.M. Torralba. *The microstructural evolution of a premixed Al-Zn-Mg-Cu powder through high-energy milling and subsequent isothermal annealing.* Proceedings of Euro PM2013 Congress, Gothenburg, Sweden, 15-18 Sept., 2013
URI: http://hdl.handle.net/10016/20453

Paper AL III:
M.A. Jabbari Taleghani, J.M. Torralba*. Compressibility characteristics of a nanostructured 7075 Al alloy powder produced by high-energy milling.* Proceedings of Euro PM2013 Congress, Gothenburg, Sweden, 15-18 Sept., 2013

Paper AL IV:
M. A. Jabbari Taleghani, E. M. Ruiz Navas, M. Salehi, J. M. Torralba. *Hot deformation behaviour and flow stress prediction of 7075 aluminium alloy powder compacts during compression at elevated temperatures.* Materials Science and Engineering: A, 534 (2012) 624-631
URI: http://hdl.handle.net/10016/20540

Paper AL V:
M. A. Jabbari Taleghani, E. M. Ruiz Navas, J. M. Torralba. *Microstructural and mechanical characterisation of 7075 aluminium alloy consolidated from a premixed powder by cold compaction and hot extrusion.* Materials and Design, 55 (2014) 674-682
URI: http://hdl.handle.net/10016/20476

Paper MG I:
M. A. Jabbari Taleghani, J. M. Torralba**.** *The microstructural evolution of a pre-alloyed AZ91 magnesium alloy powder through high-energy milling and subsequent isothermal annealing.* Materials Letters, 98 (2013) 182-185
URI: http://hdl.handle.net/10016/20453

Paper MG II:
M. A. Jabbari Taleghani, J. M. Torralba. **An Investigation on the compressibility of a pre-alloyed Mg-Al-Zn powder.** Proceedings of Euro PM2012 Congress, Basel, Switzerland, 16-19 Sept., 2012

Paper MG III:
M. A. Jabbari Taleghani, J. M. Torralba. **The effect of mechanical milling on the compressibility of a pre-alloyed Mg-Al-Zn poder.** Proceedings of Euro PM2013 Congress, Gothenburg, Sweden, 15-18 Sept., 2013

Paper MG IV:
M. A. Jabbari Taleghani, J. M. Torralba. *Hot deformation behavior and workability characteristics of AZ91 magnesium alloy powder compacts – A study using processing map.* Materials Science and Engineering: A, 580 (2013) 142-149
URI: http://hdl.handle.net/10016/20477

Paper MG V:
M. A. Jabbari Taleghani, J. M. Torralba. *Hot workability of nanocrystalline AZ91 magnesium alloy.* Journal of Alloys and Compounds, 595 (2014) 1-7
http://hdl.handle.net/10016/20479