

REFERENCES

Allen, L.V., N.G. Popovich and H.C. Ansel. 2010. *Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems Ninth Edition*. Philadelphia, US: Lippincott Williams & Wilkins.

Agrawal, R. and Y. Naveen. 2011. *Pharmaceutical processing – a review on wet granulation technology*. IJPFR 1(1): 65-83.

Arpagaus, C., N. Schafroth and M. Meuri. 2010. *Laboratory scale spray drying of lactose: a review*. Buchi Information Bulletin 57.

Badawy, S.I.F. and M.A. Hussain. 2004. *Effect of starting material particle size on its agglomeration behavior in high shear wet granulation*. AAPS PharmSciTech 5(3): 16-22.

Badawy, S.I.F., T.J. Lee and M.M. Menning. 2000. *Effect of drug particle size on the characteristics of granulation manufactured in a high-shear mixer*. AAPS PharmSciTech 1(4): E33.

Benali, M., V. Gerbaud and M. Hemati. 2009. *Effect of operating conditions and physico-chemical properties of the wet granulation kinetics in high shear mixer*. Powder Technology 190(1-2): 160-169.

Bharate, S.S., S.B. Bharate and A.N. Bajaj. 2010. *Interactions and incompatibilities of pharmaceutical excipients with active pharmaceutical ingredients: a comprehensive review*. J. Excipients and Food Chem. 1(3): 3-26.

Bouwman, A.M. 2005. *Form, formation, and deformation: The influence of material properties and process conditions on the shape of granules produced by high shear granulation*. Doctoral Thesis. Faculty of Mathematics and Natural Science. University of Groningen, Groningen, The Netherlands.

Briens, L. and R. Logan. 2011. *The effect of the chopper on granules from wet high-shear granulation using a PMA-1 granulator*. AAPS PharmSciTech 12(4): 1358-1365.

Bunte, K. and S.R. Abt. 2001. *Sampling Surface and Subsurface Particle-Size Distributions in Wadable Gravel- and Cobble-Bed Streams for Analyses in Sediment Transport, Hydraulics, and Streambed Monitoring*. Fort Collins, US: Rocky Mountain Research Station.

Chitu, T.M., D. Oulahna and M. Hemati. 2011. *Rheology, granule growth and granule strength: Application to the wet granulation of lactose-MCC mixtures*. Powder Technology 208(2): 441-453.

Chitu, T.M., D. Oulahna and M. Hemati. 2011. *Wet granulation in laboratory scale high shear mixers: Effect of binder properties*. Powder Technology 206(1-2): 25-33.

Chitu, T.M., D. Oulahna and M. Hemati. 2011. *Wet granulation in laboratory-scale high shear mixers: Effect of chopper presence, design and impeller speed*. Powder Technology 206(1-2): 34-43.

Davila, B.E.R. and C. Velásquez. 2009. *Effect of initial particle size on particle growth during wet granulation in a high shear mixer*. Proc. AIChE 2009: 62bh.

Diosna Dierks & Söhne GmbH. 2008. *Pharmaceutical Mixer 0.25 to 150 L—mixing, granulation and vacuum drying (product brochure)*. Osnabrück, Germany: Diosna Dierks & Söhne GmbH.

Endecotts Ltd. 1977. *Test sieving manual*. London, UK: Endecotts Ltd.

Ennis, B.J. 2009. *Handbook of Pharmaceutical Granulation Technology Third Edition, Chapter 2*. New York, USA: Informa Healthcare.

Gokhale, R. and N.R. Trivedi. 2009. *Handbook of Pharmaceutical Granulation Technology Third Edition, Chapter 9*. New York, USA: Informa Healthcare.

Green, D.W. and R.H. Perry. 2008. *Perry's Chemical Engineer's Handbook Eighth Edition*. New York, USA: McGraw-Hill.

Iveson, S. M., D. L. Lister, D. L. Hapgood, B. J. Ennis. 2001. *Nucleation, growth and breakage phenomena in agitated wet granulation process: a review*. Powder Technology 117(1-2): 3-39.

Karperien, A., H.F. Jelinek, J.J.G. Leandro, J.V.B. Soares, R.M. Cesar, Jr. and A. Luckie. 2008. *Automated detection of poliverative retinopathy in clinical practice*. Clin. Ophthalmol. 2(1): 109-122.

Knight, P.C. 1993. *An Investigation of the kinetics of granulation using a high shear mixer*. Powder Technology 77(2): 159-169.

Kristensen, H.G. 1988. *Agglomeration of powders*. Acta Pharm Suec. 25(2): 87-204.

Levin, Michael. 2006. *Encyclopedia of Pharmaceutical Technology Third Edition, Chapter 288*. Boca Raton, USA: CRC Press.

Malvern Instruments. 1997. *Getting Started (Mastersizer 2000 manual book)*. Worchestershire, UK: Malvern Instruments.

Malvern Instruments. 2005. *Mastersizer 2000 (product brochure)*. Worchestershire, UK: Malvern Instruments.

McCabe, W.L., J.C. Smith and P. Haariot. 2005. *Unit Operations of Chemical Engineering Seventh Edition, International Edition*. Singapore, Singapore: McGraw-Hill.

Michaels, J.N., L. Farber, G.S. Wong, K. Hapgood, S.J. Heidel, J. Farabaugh, J.H. Chou and G.I. Tardos. 2009. *Steady states in granulation of pharmaceutical powders with application to scale-up*. Powder Technology 189(22): 295-303.

Parikh, D.M. 2009. *Handbook of Pharmaceutical Granulation Technology Third Edition, Chapter 1*. New York, USA: Informa Healthcare.

Patel, H., V. Shah and U. Upadhyay. 2011. *New pharmaceutical excipients in solid dosage form — a review*. IJPLS 2(8): 1006-1019.

Perina, A. and N. Jovic. 2011. *Image analysis by counting on a grid*. Proc. IEEE International Conference on Computer Vision and Pattern Recognition 2011: 1985-1992.

Rahmanian, N. B.H. Ng, A. Hassanpour, Y.L. Ding, S.J. Anthony, X.D. Jia and M. Ghadiri. 2008. *Scale-up of high-shear mixer granulators*. Kona Powder Part J. 26(10): 190-204.

Realpe, A. and C. Velázquez. 2008. *Growth kinetics and mechanism of wet granulation in a laboratory-scale high shear mixer: Effect of initial polydispersity of particle size*. Chemical Engineering Science 63(6): 1602-1611.

Reynolds, G.K., P.K. Le and A.M. Nilpawar. 2007. *Handbook of Powder Technology First Edition, Volume 11, Chapter 1*. Amsterdam, The Netherlands: Elsevier Science.

Rowe, R.C., P.J. Sheskey and M.E. Quinn. 2009. *Handbook of Pharmaceutical Excipients Sixth Edition*. London, UK: Pharmaceutical Press.

Roy, P., R. Khanna, D. Subbarao. 2010. *Granulation time in fluidized bed granulators*. Powder Technology 199(1): 95-99.

Sakr, W.F., M.A. Ibrahim, F.K. Alanazi and A.A. Sakr. 2012. *Upgrading wet granulation monitoring from hand squeeze test to mixing torque rheometry*. Saudi Pharm J. 20(1): 9-19.

Saleh, K. and P. Guigon. 2007. *Handbook of Powder Technology First Edition, Volume 11, Chapter 7*. Amsterdam, The Netherlands: Elsevier Science.

Sato, Y., T. Okamoto and S. Watano. 2005. *Scale-up of high shear granulation based on agitation power*. Chem. Pharm. Bull. 53(12): 1547-1550.

Terashita, K., T. Nishimura and S. Natsuyama. 2002. *Optimization of operating conditions in a high-shear mixer using DEM model: Determination of optimal fill level*. Chem. Pharm. Bull. 50(12): 1550-1557.

United States Pharmacopoeia. 2009. *The United States Pharmacopoeia 31—National Formulary 26*. Rockville, US: United States Pharmacopoeia Convention.

Wang, S., G. Ye, P.W.S. Heng and M. Ma. 2009. *Investigation of high shear wet granulation processes using different parameters and formulations*. Chem. Pharm. Bull. 56(1): 22-27.

Watano, S., T. Numa, K. Miyanami and Y. Osako. 2000. *On-line monitoring of granule growth in high shear granulation by an image processing system*. Chem. Pharm. Bull. 48(8): 1154-1159.

Westerhuis, J. A. 1997. *Multivariate Statistical Modeling of the Pharmaceutical Process of Wet Granulation and Tableting*. PhD Thesis. Faculty of Mathematics and Natural Sciences, University of Groningen, Netherlands.

Woyena-Orlewicz, K. and R. Jachowicz. 2011. *Analysis of wet granulation process with Plackett-burman design—case study*. Drug Research 68(5): 725-733.