Papers related to the application of Ring Shear Testers RST-01 or RST-XS

If you know a paper that should be included here, please be so kind and keep us informed. Thank you.

Papers are listed in random order.

[1] Tissen, C., Woertz, K., Breitkreutz, J., Kleinebudde, P.: Development of mini-tablets with 1 mm and 2 mm diameter, International Journal of Pharmaceutics 416 (2011) 1, pp. 164-170

[2] Chattoraj, S., Shi, L., Sun, C.C.: Profoundly improving flow properties of a cohesive cellulose powder by surface coating with nano-silica through comilling, Journal of Pharmaceutical Sciences 100 (2011) 11, pp. 4943-4952

[3] Althaus, T.O., Windhab, E.J.: Characterization of wet powder flowability by shear cell measurements and compaction curves, Powder Technology (2011) (in press)

[4] Mullarney, M.P., Beach, L.E., Rajesh, N.D., Langdon, B.A., Polizzi, M., Blackwood, D.O.: Applying dry powder coatings to pharmaceutical powders using a comil for improving powder flow and bulk density, Powder Technology 212 (2012), pp. 397-402

[5] Landi, G., Barletta, D., Poletto, M.: Modelling and experiments on the effect of air humudity on the flow properties of glass powders, Powder Technology 207 (2011), pp. 437-443

[6] Shi, L., Chattoraj, S., Sun, C.C.: Reproducibility of flow properties of microcrystalline cellulose – Avicel PH102, Powder Technol. 212 (2011), pp. 253-257

[7] Shi, L., Feng, Y., Sun, C.C.: Origin of profound changes in powder properties during wetting and nucleation stages of high-shear wet granulation of microcrystalline cellulose, Powder Technol. 208 (2011), pp. 663-668

[8] Shi, L., Feng, Y., Sun, C.C.: Massing in high-shear wet granulation can simultaneously improve powder flow and deteriorate powder compaction: A double-edged sword, European J. of Pharm. Sci.43 (2011), pp. 50-56

[9] Roth, C., Künsch, Z., Sonnenfeld, A., von Rohr, P.R.: Plasma surface modification of powders for pharmaceutical applications, Surface & Cpoatings Technol. 205 (2011), pp. S597-S600

[10] Djuric, D., Van Melkebeke, B., Kleinebudde, P., Remon, J.P., Vervaet, C.: Comparison of two twin-screw extreuders for continuous granulation, European J. of Pharmaceutics and Biopharmaceutics 71 (2009), pp. 155-160

[11] Watling, C.P., Elliott, J.A., Cameron, R.E.: Entrainment of lactose inhalation powders: A study using laser diffraction, European J. of Pharmaceutical Sciences 40 (2010), pp. 352-358

[12] Yu, W., Muteki, H., Zhang, L., Kim, G.: Prediction of bulk powder flow performance using comprehensive particle size and particle shape distributions, J. Pharmaceutical Sciences 100 (2011) 1, pp. 284-293,

[13] Palzer, S.: The effect of glass transition on the desired and undesired agglomeration of amorphous food powders, Chem. Eng. Sci. 60 (2005), pp. 3959-3968

[14] Hartmann, M., Palzer, S.: Caking of amorphous powders – Material aspects, modelling and applications, Powder Technol. 60 (2011), pp. 112-121

[15] Fatah, N.: Study and Comparison of micronic and nanometric powders: Analysis of physical, flow and interparticle properties of powders, Powder Technol. 190 (2009), pp. 41-47

[16] Shi, L., Feng, Y., Sun, C.C.: Initial moisture content in raw material can profoundly influence high shear wet granulation process, International Journal of Pharmaceutics 416 (2011) 1, pp. 43-48
[17] Hou, H., Sun, C.C.: Quanitfying effects of particulate properties on powder flow properties using a ring shear tester, J. of Pharmaceutical Sciences 97 (2008) 9, pp. 4030-4039
[18] Mansa, R.F., Bridson, R.H., Greenwood, R.W., Barker, H., Seville, J.P.K.: Using intelligent software to predict the effects of formulation and processing parameters on roller compaction, Powder Technology 181 (2008), pp. 217-225
[19] Liu, L.X., Marziano, I., Bentham, A.C., Litster, J.D., White, E.T., Howes, T.: Effect of particle properties on the flowability of ibuprofen powders, International J. of Pharmaceutics 363 (2008), pp. 109-117