



PLANT AND TECHNOLOGY
INTERNATIONAL

CP+T International 1-2018

Evaluating SEDEX iron filter print designs – 30 years later

References:

- [1] Giebing, S., Baier,, A. "SEDEX – Process Reliability Through Effective Quality Control," Foundry Practice, vol. 254, pp. 4 (June 2011).
- [2] Morales, R.D., Adams, A., Dickinson, B. "Enhancing Filtration Knowledge to Improve Foundry Performance", Foundry Practice, Special Edition, pp. 21 (May 2008).
- [3] Baier, A. "The Influence of Filter Type and Gating System Design on the Machinability of Vertically Parted Grey Iron Castings", Foundry Practice, Special Edition, pp. 29 (May 2008).
- [4] Taylor, K.C., Baier, A. "Application of SEDEX Ceramic Foam Filters on Vertically Parted Moulds Such as Disamatics", Foundry Practice, vol. 238, pp. 10 (March 2003).
- [5] Midea, A.C. "Pressure Drop Characteristics of Iron Filters", AFS Transactions, 01-042, (2001).
- [6] Brown, J.R. "Foseco Ferrous Foundryman's Handbook", pp. 250-266, Butterworth-Heinemann, Woburn, MA, 2000.
- [7] Park, W.H. "SEDEX Ceramic Foam Filter Applications in Korea", Foundry Practice, vol. 221, pp. 2 (March 1991).
- [8] Matsuo, H. "SEDEX Ceramic Foam Filter Applications on Regular Production Casting in Japan, Foundry Practice, vol. 220, pp. 4 (September 1990).
- [9] Kallisch, W. "SEDEX – A Filter with Authority", Foundry Practice, vol. 217, pp. 18 (April 1989).
- [10] Rietzscher, R. Sipl. – Ing. "The Filtration of Molten Iron", Foundry Practice, vol. 212, pp. 5 (March 1986).
- [11] Heine, R.W., Loper, C.R., Rosenthal, P.C. "Principles of Metal Castings", pp. 223, McGraw-Hill Book Company, New York, 1967.

Simulation of non-ferrous melting and die casting plants for energy efficiency

References:

- W. Schlüter et al., "Key Figures for Production Control in Non-Ferrous Melting and Die-Casting Plants Based on the Assessment of the Operating State", Applied Mechanics and Materials, Vol. 871, pp. 176-185, 2017
- W. Schlüter et al., " Weak Point Analysis and Process Improvement of Non-ferrous Melting and Die-casting Plants Using Bidirectional Coupling of a Material Flow Model with an Energy Model", Simulation in Produktion und Logistik 2017, pp. 19-28, 2017
- M. Henninger et al. „Smart Melting: Steigerung der Energieeffizienz in der Schmelzerei von Aluminium-Schmelz- und Druckgussbetrieben“ GIESSEREI, Vol. 104 (2), pp. 48-55, 2017