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Characteristics of Alumina Powders Prepared by Spray-Drying of Boehmite Sol.

— Free flowing alumina granules of $\cong 2\mu\text{m}$ particle size containing submicrometer sized crystallites are prepared by spray-drying of boehmite sol derived from $\text{Al}(\text{NO}_3)_3$ and deagglomeration by washing with solvents of different polarities. By careful washing with 2-propanol, Al_2O_3 powder of maximum compaction density of 52% is obtained. This powder has spherical shape and a high density after sintering at 1500°C . — (VARMA, H. K.; MANI, T. V.; DAMODARAN, A. D.; WARRIER, K. G.; BALACHANDRAN, U.; J. Am. Ceram. Soc. 77 (1994) 6, 1597-1600; Reg. Res. Lab., CSIR, Thiruvananthapuram 695 019, India; EN)