



**Modern Developments in Powder Metallurgy:
Volume 5: Materials and Properties Proceedings of
the 1970 International Powder Metallurgy
Conference, ... and the American Powder
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Aluminum P/M parts can be production sintered in various types of furnaces and atmospheres. Selection of sintering furnace depends upon economic considerations and production rates desired. Batch furnaces have lowest investment costs and are adequate for low to medium production whereas continuous furnaces are more costly but provide higher production rates. strong, well-sintered P/M parts can be obtained in atmospheres of nitrogen, dissociated ammonia and in vacuum. Atmosphere selection depends upon facilities available within individual plants plus property requirements. Highest strengths are produced in nitrogen followed by vacuum and dissociated ammonia. Reproducible dimensions can be achieved with proper attention to compact density, sintering temperature, dew point and atmosphere. REFERENCES 1. J. H. Dudas and W. A. Dean, "High Production of Precision Aluminum P/M Parts," International Journal of Powder Metallurgy, Vol. 5, April, 1969. 2. P. F. Mathews, "Effects of Processing Variables on the Properties of Sintered Aluminum Compacts," International Journal of Powder Metallurgy, Vol. 4, October, 1968. 3. J. H. Dudas and K. J. Brondyke, "Aluminum P/M Parts - Their Properties and Performance," Technical Paper No. 700141, Society of Automotive Engineers, Inc., Two Pennsylvania Plaza, New York, New York, 10001. 4. K. R. Van Horn (Editor), Aluminum Vol. I, pp. 26-28, American Society for Metals, Metals Park, Ohio, 1967.

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