

REFERENCES

- (1) Kuczynski G.C., *Sintering and Related Phenomena*, Proceedings of the International Conference, June 1965, pp 685-712.
- (2) Fedorchenko I.M. and Ivanova I.I., *Sintering - New Developments*, Proceedings of the 4th International Round Table Conference on sintering, September 1977, pp 110-120.
- (3) Lin Y., Zee R.H. and Chin B.A., *Metallurgical Transaction A*, vol 22A, April 1991, pp 859-8656.
- (4) Deevi S.C., *Ceramics International*, vol 17, 1991, pp 41-48.
- (5) Miracle D.B., Lipsitt H.A., Mah T. and Mendiratta M.G., *J.Am Ceram.Soc.*, vol66(8), 1982, pp 592-596.
- (6) Pimbert-Michaux S. and Chabrol C., *Materials Science and Engineering* A115, 1989, pp 209-216.

ABSTRACT

A sintering process for producing a hard-wearing titanium-graphite composites having a triphasic structure with controlled porosity and a graphite lubricating film, comprising sintering a mixture of titanium and graphite powders in which the percentage of graphite may vary from 4 to 8 percent at temperatures from about 800°C to 1600°C, for about 1/2 to 2 hours, under a compaction pressure of 0.17 to 0.62 MPa. The composites have applications in biomedical engineering and other engineering due to their biocompatibility, strength and improved wear resistance.

This Sheet Has Been Replaced

