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: biocomposites, wear behaviour, two steps sintering

: The current research studies the influence of the particle size on the wear behavior for some Hap/Ti biocomposite samples prepared through a powder metallurgy (PM) route. The powder mixtures are made of submicronic and micronic Hap powders, both combined with micronic titanium hydride, TiH₂. The samples preparation consists of the powders mixture homogenization in a Pulverisette 6 planetary mill, followed by a cold compaction. Then the samples were sintered in a furnace using the two step sintering technology (TSS). The comparison is highlighted by the influence of the particle size on the biocomposite samples testing in dry friction conditions.

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