

This work was done to determine the wear behavior of sintered Ti-6Al-4V, Ti-5Al-2.5Fe, and Ti-6Al-7Nb alloys in simulated body fluid. Wear performance was described by weight loss, coefficient of friction (COF), surface roughness, microhardness, and worn surface analysis. Ti-6Al-4V alloy had the lowest stable COF and the minimum amount of weight loss. Ti-6Al-7Nb exhibited the maximum weight loss and severe wear.