

The uploaded data consists of a summary file consisting of analyses data and a compressed folder consisting of the nanoindentation data for spherical indentation of Ti6Al4V_colony_alpha_beta.

Summary File (*Ti6Al4V_colony_alpha_beta.xlsx*):

This spreadsheet contains the file name, test number and the Bunge-Euler orientation of the alpha phase, as well as the elastic indentation modulus and indentation yield strength values calculated from analyzed spherical indentation stress strain curves. Each indentation result represents the composite response of alpha-beta from a single colony. In some cases where the plastic data was not reliable, it was not included and replaced with a *.

Raw data files (*NanoIndentation_Data_Ti64_colony_alpha_beta*)

This folder contains the raw experimental data files (before analysis). Each subfolder is a batch of tests and is named after the date when it was performed. They each contain a Nanosuite® file, a batch file and an excel file containing the imported raw data. The excel files are structured such that each test for the same experimental batch is assigned a different sheet labeled with the test number.