

Summary File

The summary file contains information from all tested alloys in this study. It provides the Euler orientation angle values for each grain that was tested and the measured Indentation Modulus and Indentation Yield results with their respective standard deviations. The measured chemical composition for the primary-alpha phase of each alloy is given in weight % and atomic % forms. Amount of oxygen was determined in accordance with ASTM E1409-13 by Inert Gas Fusion. Every other elemental composition was measured using Electron Probe Microanalysis (EPMA) technique. Finally, the directory path and test number identifiers to the raw experimental data are presented in the last two columns. All tests were performed with the same indenter tip of radius 15.2 μm .

Raw data files

The raw experimental data files (before analysis) are classified by alloy name. Under each chemistry name, subfolders are named after the date when tests were performed. Excel files containing the data are structured such that each test for the same experimental batch is assigned a different sheet labeled with the test number.