

## **HIPPO Phase and Texture Dataset for Accumulative Roll Bonded Alloy 2205 Duplex Steel**

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The steel roll bonding dataset is presented in the article LA-UR-22-22594 which is under review in the journal Metallurgical and Materials Transactions A. The dataset consists of five HIPPO (the High Pressure Preferred Orientation beamline at the Los Alamos Neutron Science Center) measurements at 0, 80.5, 92.5, 95, and 97.5% rolling reduction. The raw diffraction files contain only the metadata related to the measurement, and similar datafiles are routinely shared outside of LANL due to external users of the HIPPO beamline. We are requesting that the steel roll bonding dataset be free released so that the data can be an integrated example for users of the Rietveld program MILK which has been open sourced by NNSA under “C21035 MAUD Interface Tool Kit (MILK)”. The data will be hosted in the git repository with the MILK software at <https://github.com/lanl/MILK>.