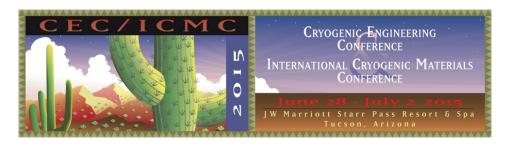
CEC-ICMC 2015 - Timetable, Abstracts and Presentations



Contribution ID: 520

Type: Poster Presentation

Toward Further Improvements in the Powder-In-Tube Process.

Powder-in-Tube (PIT) Nb3Sn conductors have be fabricated. In this paper, we determine the effect of the nanoscale alumina on strengthening the tin through milling as a function of time to better match the mechanical properties of the Matrix NbTa. A closer match of the tin cores to the NbTa matrix is expected to help in uniform processing to achieve concentric tin cores. Characterization of the microstructure and non-Cu critical current density with applied field is presented.

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Track Classification: ICMC-01 - NbTi/Nb3Sn/A15 Processing and Properties