



**MT 26**  
**International Conference**  
**on Magnet Technology**  
*Vancouver, Canada | 2019*

Contribution ID: 741

Type: **Poster Presentation**

## **Wed-Af-Po3.25-13 [116]: Mechanical Property of Composite MgB<sub>2</sub> Superconducting Wires**

*Wednesday, 25 September 2019 14:00 (2 hours)*

Composite MgB<sub>2</sub> wires have been now commercialized by a few industries in the world. In order to use them for applications, it is necessary to evaluate their mechanical property together with critical current and its stress / strain dependence. In the present study, the mechanical properties of three kinds of commercialized MgB<sub>2</sub> wires were mainly evaluated. Their observed Young's moduli coincided with the calculated values.

**Primary authors:** Prof. OSAMURA, Kozo (Research Institute for Applied Science); Dr OGURO, Hidetoshi (Tokai University); Prof. MACHIYA, Shutaro (Daido University); Dr HISHINUMA, Yoshimitsu (NIFS); Mr TANIGUCHI, Hiroyasu (Osaka Goukin Co. Ltd)

**Presenter:** Prof. OSAMURA, Kozo (Research Institute for Applied Science)

**Session Classification:** Wed-Af-Po3.25 - MgB<sub>2</sub> and Iron-Based